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ABSTRACT

The Career Planning Profile (CPP) national norms presented in this document provide comprehensive information on the abilities, interests, and other personal characteristics of a cross section of vocational and technical students enrolled in a wide range of programs. It was developed to help young people consider a broad range of occupations and educational programs beyond high school. The national norms presented represent 17,137 vocational-technical students entering 100 postsecondary vocational-programs in community (or junior) colleges and other public vocational-technical institutions. Chapter 1 discusses norming the CPP and presents information on the selection of the national norm group, characteristics of the national norm group, norm group students, norm group institutions, and scaling the CPP measures. Chapter 2 concerns general norms, vocational-technical program cluster norms, and special subgroup norms. Chapter 3 presents career planning profile student report modifications and interpretative aids. Chapter 4 contains a summary of reliability and validity data, including vocational interest profile scale structure, differentiation of vocational-technical programs, and prediction of grades in vocational-technical courses. Appendixes, making up two-thirds of the document, contain a list of institutions administering the CPP during the national norming period, and detailed information and data on general norms, vocational-technical cluster norms, special subgroup norms, and program cluster profiles. (TA)

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ED142685

# CAREER PLANNING PROFILE NATIONAL NORMS

FOR

## VOCATIONAL-TECHNICAL STUDENTS BEYOND HIGH SCHOOL

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April 1971

The American College Testing Program, Inc., Iowa City, Iowa

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# PREFACE

This publication joins several other ACT publications on the guidance and education of vocational and technical students. While much of this report is related to Career Planning Profile National Norms, more than another set of test norms is presented here. The national norms, themselves, provide perspective on the abilities, interests, and other personal characteristics of a cross section of vocational and technical students enrolled in a wide range of programs. Comprehensive information on the characteristics of this long-neglected group of students has been extremely rare. Perhaps more important, however, are the validity studies summarized in Chapter 4. These studies represent the beginning of a series of studies designed to investigate the relationship of human characteristics to career development. The resulting information should be of considerable value in developing better tools for use in educational and vocational guidance.

Chapters 1 and 4 of this report contain the information originally intended for a technical supplement to the Handbook for the ACT Career Planning Profile, 1970-71 Edition. Additional technical data for the Career Planning Profile will appear in the ACT Research Report Series as analyses are completed, and in the 1972-73 edition of the Handbook.

Many persons, both inside and outside ACT, have contributed to this publication and the research on which it is based. The ACT Educational Services staff was particularly helpful in working with the vocational-technical institutions that participated in the Career Planning Profile norming. These institutions are listed in Appendix A of this report. To the staffs of these institutions, and particularly to the students, we owe a very special debt of gratitude.

Copy for this report was prepared by Tom Greenland (norming and norms), James Maxey (norms), Harold Engen (Student Report modifications and interpretative aids), Gary Hanson (norming, reliability data, and chi-square analyses), Dale Prediger (norming and discriminant analyses), and Nancy Cole (norming, configural analyses, and regression analyses). The cover was designed by Stan Haring.

Leo A. Munday, Vice President
Research and Development Division

Iowa City, Iowa
April 1971

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# CHAPTER 1

## NORMING THE CAREER PLANNING PROFILE

The Career Planning Profile was developed to help young people consider a broad range of occupations and educational programs beyond high school. Special emphasis has been given to vocational-technical education, an area offering unusual career opportunities but one for which high school students and their counselors have traditionally lacked adequate guidance information. As the major instrument in the Career Planning Program, the Career Planning Profile serves as the point of entry into an information system having both guidance and administrative applications. The rationale, development, psychometric characteristics, and use of instruments in the Career Planning Profile are discussed in the Handbook for the ACT Career Planning Profile, 1970-71 Edition, which is available upon request. An overview of the entire program is provided by the publication entitled "Announcing the Career Planning Program."

Although the Career Planning Profile can be used to explore the full range of educational and vocational options, it is especially valuable for students considering vocational-technical education. For this reason, the national norms represent students entering postsecondary vocational-technical programs in community (or junior) colleges and other public vocational-technical institutions.

### Selection of the National Norm Group

The number of students enrolled in each of seven federally-reimbursed, postsecondary vocational-technical education program areas (hereafter called clusters) was obtained from a report entitled Vocational and Technical Education: Annual Report, Fiscal Year 1967 (U. S. Department of Health, Education, and Welfare, Office of Education, 1969). These enrollment figures, the latest available at the time norm group specifications were determined, are exclusive of enrollment in adult programs. State figures for each of the seven program clusters were grouped into six geographic regions. These regional enrollments, after translation to percentages, provided norm group specifications for type of program by geographic region.

The distribution within region of community colleges and other public institutions offering vocational-technical programs was also considered in formulating norm group specifications. A survey by Gartland and Carmody (1970), showed that for the nation as a whole, about two-thirds of the institutions offering postsecondary vocational-technical programs were community (or junior) colleges. Variation in this ratio was substantial from region to region, however. Hence, norm group specifications were also developed for type of institution within each of the six geographic regions.

With the norm group specifications described above serving as guidelines, institutions judged to be representative within each region were contacted and invited to participate in the national norming. Allocations of vocational-technical programs to be included at each institution reflected the regional distribution of programs obtained from the federal report as noted above. As institutional contacts progressed, however, programs were identified that could not be readily included in the federal classification system that was adopted. Consequently, a Social Science and Public Service cluster and an Arts and Humanities cluster were added to the original seven, thus making a total of nine program clusters.

## Characteristics of the National Norm Group

The Career Planning Profile National Norms are based on 17,137 vocational-technical students entering 100 postsecondary institutions. Norm group testing involving more than 23,000 students took place in the fall of 1970. In cases where institutions tested students beyond the number and type specified, the additional students were not included in the national norm group. The distributions of norm group students and institutions across geographic regions are shown in Table 1 along with the distribution of type of institution within region. Table 2 shows the regional and national norm group distribution by vocational-technical program cluster. A student was considered to be enrolled in the program he indicated when he took the Career Planning Profile.

Because of the rapid expansion of opportunities for vocational-technical education in the United States, a "status quo" for use in evaluating the representativeness of the national norm group does not exist. Development of new areas of vocational-technical education keeps pace with the advance of technology. Periodically, whole states commit themselves to major investments in this heretofore neglected area of education. Hence, it is impossible to determine the degree to which Career Planning Profile norms adequately represent the changing national picture. The information presented in this report should help the reader who is knowledgeable about vocational-technical education make his own assessment, however. To aid in this assessment, the distribution of norm group members on a number of important variables is presented below.

## Characteristics of Norm Group Students

In the process of completing the Career Planning Profile, students respond to a number of questions related to their home background, educational experiences, and plans. The distributions of student responses to items of particular importance in assessing norm group characteristics are summarized in Tables 3 through 9. Table 7 is based on all students in the norm group. The remaining tables are based on the 16,841 students who had scores on each of the Ability Measures, the numbers varying from table to table according to the number of nonresponders on a given item. Since some of the students did not answer all questions, the sample size shown for several of the tables is less than 16,841.

TABLE 1

Geographic Distribution of Norm Group Members and Institutions

| Region | Component states | Regional N (% of total) | Number and type of institutions included | |
|---|---|---|---|---|
| | | | Community college | Vocational-technical institute |
| Western | Alaska, Calif., Hawaii, Idaho, Nev., Or., Wash. | 5,612 (32.7) | 29 | 2 |
| Mountain-Plains | Colo., Kan., Mont., Neb., N. D. S. D., Utah, Wyo. | 1,896 (11.1) | 4 | 7 |
| Southwestern | Ariz., Ark., N. M., Okla., Tex. | 2,200 (12.8) | 9 | 2 |
| Midwestern | Ill., Ind., Iowa, Mich., Minn., Mo., Ohio, Wis. | 1,644 (9.6) | 6 | 2 |
| Southeastern | Ala., Fla., Ga., Ky., La., Miss., N. C., S. C., Tenn., Va. | 3,649 (21.3) | 13 | 14 |
| Eastern | Conn., Del., D. C., Me., Md., Mass., N. H., N. J., N. Y., Pa., R. I., Vt., W. Va. | 2,136 (12.5) | 9 | 3 |
| National | | 17,137 (100.0) | 70 | 30 |

TABLE 2

Percentage of Norm Group Enrollment in Vocational-Technical Program Clusters by Region

| Region | N | Vocational-technical program cluster[a] | | | | | | | | | Other[b] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | |
| Western | 5,612 | 9.4 | 3.7 | 13.7 | 0.7 | 16.9 | 8.9 | 26.5 | 9.1 | 1.1 | 10.1 |
| Mountain-Plains | 1,896 | 4.1 | 1.7 | 17.1 | 0.1 | 19.4 | 12.3 | 34.3 | 5.7 | 0.3 | 5.0 |
| Southwestern | 2,200 | 5.7 | 2.5 | 9.1 | 0.5 | 23.2 | 10.3 | 36.6 | 1.2 | 0.9 | 9.8 |
| Midwestern | 1,644 | 5.8 | 2.9 | 36.7 | 0.3 | 17.6 | 10.0 | 12.8 | 7.6 | 1.0 | 5.2 |
| Southeastern | 3,649 | 4.5 | 4.4 | 16.6 | 0.4 | 29.4 | 6.7 | 20.6 | 5.7 | 2.4 | 9.5 |
| Eastern | 2,136 | 8.0 | 3.9 | 24.2 | 0.1 | 15.0 | 6.8 | 25.0 | 9.1 | 0.2 | 7.7 |
| National | 17,137 | 6.8 | 3.4 | 17.7 | 0.4 | 20.5 | 8.8 | 25.9 | 6.9 | 1.1 | 8.6 |

Note. —Percentages accumulate by row.

[a]Students select their field of study from these clusters:

100 = Agriculture, Forestry & Maritime
200 = Persuasion & Marketing
300 = Health
400 = Home Economics
500 = Business & Office
600 = Science, Engineering & Technology
700 = Trade & Industrial
800 = Social Science & Public Service
900 = Arts & Humanities

[b]Includes students who used a nonexistent code number for their field of study or marked one of the following: "My future field is not included in the list"; "I have not yet selected among the many alternatives available to me (Undecided)"; "Housewife."

## Characteristics of Norm Group Institutions

Names of the 125 institutions administering the Career Planning Profile during the norming phase are listed in Appendix A. The 100 norm group institutions are indicated by an asterisk. The remaining institutions on the list were not included in the actual norming for one of the following reasons: (a) including them would have resulted in disproportionate representation of institutions or students from particular states or regions; (b) all sections of the Career Planning Profile were not administered; or (c) answer sheets were returned too late to be included in the norm group analyses.

A survey of norm group institutions showed that approximately one-third of their vocational-technical program enrollees were part-time students (typically defined as being enrolled for less than 12 credit hours per term). From Table 8 it can be seen that this group of students is underrepresented in the norm group, probably because of difficulty in scheduling a continuous three-hour testing session for them. Norms presented for part-time students in Appendix D show that those who were tested are typical of students in the norm group as a whole.

The regional distribution for community colleges and vocational-technical institutions in the norm group is reported in Table 1. The latter category includes 15 area vocational-technical schools or centers, 10 vocational-technical institutes, 3 technical institutes, and 2 institutions identifying themselves as college level vocational schools. Unpublished data collected as part of the national survey by Gartland and Carmody (1970) show that the percentage of community colleges among all institutions offering vocational-technical programs in a region is as follows: West (88%), Mountain-Plains (61%), Southwest (82%), Midwest (63%), Southeast (56%), and East (67%). The corresponding percentages for the national norm group are: West (94%), Mountain-Plains (36%), Southwest (82%), Midwest (75%), Southeast (48%), and East (75%). For the nation as a whole, Gartland and Carmody reported that community colleges comprise 66% of the postsecondary institutions enrolling vocational-technical students. The corresponding figure for the norm group is 70%.

## Scaling the Career Planning Profile Measures

Except for the interest, ability, and competency measures, the information printed on the Career Planning Profile Student Report directly represents the responses of the student. Scaled scores, on the other hand, are useful in comparing a student's results with those of various reference groups, e.g., students enrolled in a particular vocational-technical program cluster, "older students," and part-time students. Scaled scores also facilitate representation of a student's general pattern of interests and abilities. For this reason, a standard score scale was developed for the

Ability Measures and the Vocational Interest Profile, and a quasi-scale with verbal descriptors was constructed for the Special Competency measures. Scaling was conducted on Form F, the form used in all norm group testing. Subsequent forms will be equated to score scales developed for Form F.

## Vocational Interest Profile and Ability Measures

Cumulative frequency distributions of raw scores on the interest and ability measures were used in converting raw scores to normalized standard scores ranging from 20 to 80 with a mean of 50 and a standard deviation of 10. The Vocational Interest Profile was scaled on the 16,926 men and women in the norm group who had scores on all 12 measures. The Ability Measures were scaled on the 16,841 norm group members with scores on all 7 measures.

## Special Competency Measures

Raw scores on the Special Competency scale indicate the number of competencies checked by the student in a given competency area. These scores have been transformed into verbal labels indicating the relative number of competencies reported when compared with students in the norm group. The labels used are many, some, few, and none. Scaling for each Special Competency involved all students having a score on that measure. Students indicating no competencies in a given area (i.e., those with a raw score of zero) were assigned the label "none." On the basis of cumulative frequency distributions for men and women combined, scores falling at approximately the 90th percentile or above were assigned the label "many." The labels "some" and "few" were assigned to the remainder of the raw score distribution falling above and below the 50th percentile, respectively. The resulting four-category, quasi-scale should be adequate for identifying students who have talent in areas not usually assessed by standardized tests.

TABLE 3

Percentage Distribution for Parents' Educational Level

| Highest level of education completed | Father's Education | | | Mother's Education | | |
|---|---|---|---|---|---|---|
| | Men | Women | Total | Men | Women | Total |
| Eighth grade or less | 21 | 22 | 22 | 12 | 14 | 13 |
| Some high school | 17 | 16 | 17 | 17 | 20 | 18 |
| High school graduate | 26 | 24 | 25 | 39 | 34 | 37 |
| Technical or business school | 5 | 6 | 5 | 5 | 8 | 6 |
| Some college | 6 | 8 | 7 | 6 | 7 | 6 |
| 2-year college graduate | 3 | 3 | 3 | 3 | 4 | 4 |
| 4-year college graduate | 5 | 5 | 5 | 4 | 3 | 4 |
| Some post-college schooling | 1 | 2 | 1 | 1 | 1 | 1 |
| Received advanced degree | 2 | 3 | 3 | 1 | 1 | 1 |
| Do not know or prefer not to say | 13 | 11 | 12 | 11 | 7 | 9 |
| Sample size | 10,354 | 6,405 | 16,759 | 10,341 | 6,411 | 16,752 |

TABLE 4

Percentage Distribution of Parents' Occupation

| Occupational categories of parents | Men | Women | Total |
|---|---|---|---|
| Father's occupation | | | |
| Managerial or executive | 9 | 10 | 9 |
| Professional | 4 | 4 | 4 |
| Sales | 4 | 4 | 4 |
| Semi-professional or technical | 4 | 3 | 4 |
| Semi-skilled | 16 | 18 | 17 |
| Skilled trades | 18 | 16 | 17 |
| Small business owner or farm owner | 15 | 13 | 14 |
| Supervisor or public official | 8 | 8 | 8 |
| Unskilled | 10 | 9 | 9 |
| Not applicable or prefer not to say | 14 | 14 | 14 |
| Sample size | 10,273 | 6,354 | 16,627 |
| Mother's occupation | | | |
| Housewife | 57 | 54 | 56 |
| Managerial, executive, or professional | 4 | 5 | 4 |
| Sales | 4 | 4 | 4 |
| Secretary-stenographer | 6 | 6 | 6 |
| Semi-professional or technical | 3 | 4 | 3 |
| Semi-skilled | 9 | 9 | 9 |
| Small business owner | 2 | 2 | 2 |
| Supervisor or public official | 2 | 2 | 2 |
| Unskilled | 7 | 8 | 7 |
| Not applicable or prefer not to say | 6 | 6 | 6 |
| Sample size | 10,313 | 6,377 | 16,690 |

TABLE 5

Distribution of Ethnic Background in Percentages

| Student response | Men | Women | Total |
|---|---|---|---|
| Afro-American/black | 6.8 | 11.4 | 8.6 |
| American Indian | 2.6 | 1.8 | 2.3 |
| Caucasian American/white | 72.5 | 71.9 | 72.3 |
| Mexican/Spanish American | 3.4 | 2.2 | 3.0 |
| Oriental American | 5.2 | 4.2 | 4.8 |
| Other or I prefer not to respond | 9.5 | 8.5 | 9.1 |
| Sample size | 10,264 | 6,429 | 16,693 |

TABLE 6

Distribution of Family Income in Percentages

| Student response | Men | Women | Total |
|---|---|---|---|
| Less than $3,000 per year | 4 | 6 | 5 |
| $3,000 to $4,999 | 7 | 7 | 7 |
| $5,000 to $7,499 | 14 | 11 | 13 |
| $7,500 to $9,999 | 15 | 11 | 14 |
| $10,000 to $14,999 | 19 | 14 | 17 |
| $15,000 to $19,999 | 6 | 5 | 5 |
| $20,000 to $24,999 | 2 | 2 | 2 |
| $25,000 or more | 2 | 2 | 2 |
| Consider confidential | 10 | 11 | 10 |
| I do not know | 21 | 31 | 25 |
| Sample size | 10,325 | 6,387 | 16,712 |

TABLE 7

Age Distribution in Percentages

| Age | Men | Women | Total |
|---|---|---|---|
| 15 | 0.0 | 0.0 | 0.0 |
| 16 | 1.4 | 0.8 | 1.1 |
| 17 | 3.1 | 2.5 | 2.9 |
| 18 | 32.5 | 46.0 | 37.7 |
| 19 | 20.1 | 18.3 | 19.4 |
| 20 | 8.1 | 6.6 | 7.5 |
| 21 | 4.7 | 3.7 | 4.3 |
| 22 | 4.9 | 2.1 | 3.8 |
| 23 | 5.7 | 1.6 | 4.1 |
| 24 | 4.2 | 1.2 | 3.1 |
| 25-29 | 7.6 | 4.5 | 6.4 |
| 30-34 | 2.8 | 3.8 | 3.2 |
| 35-39 | 1.7 | 3.1 | 2.2 |
| 40-44 | 1.2 | 2.2 | 1.6 |
| 45 & over | 1.9 | 3.6 | 2.6 |
| Sample size | 10,583 | 6,554 | 17,137 |

TABLE 8

Enrollment Status in Percentages

| Enrollment | Men | Women | Total |
|---|---|---|---|
| Part-time | 9.2 | 8.7 | 9.0 |
| Full-time | 90.8 | 91.3 | 91.0 |
| Sample size | 8,721 | 5,959 | 14,680 |

TABLE 9

Mean High School Grade and Percentage Distribution of Letter Grades for Six Subject Areas

| | Subject Area | | | | | |
|---|---|---|---|---|---|---|
| Grade | English | Math | Social Studies | Natural Sciences | Business | Vocational |
| A | 9 | 8 | 12 | 8 | 19 | 34 |
| B | 34 | 27 | 37 | 32 | 40 | 43 |
| C | 45 | 47 | 43 | 47 | 34 | 20 |
| D | 10 | 16 | 8 | 11 | 5 | 2 |
| F | 1 | 2 | 0 | 1 | 1 | 0 |
| Sample size[a] | 16,275 | 15,875 | 15,664 | 14,776 | 10,835 | 10,634 |
| Mean[b] | 2.41 | 2.22 | 2.51 | 2.35 | 2.72 | 3.09 |
| S.D. | .82 | .89 | .82 | .82 | .86 | .80 |

Note.--Total number of students in analysis was 16,841. All grades were self-reported.

[a]Based on number of students reporting grades.

[b]Based on a scale of A=4, B=3, C=2, D=1, F=0.

# CHAPTER 2

## NATIONAL NORMS

The Career Planning Profile National Norms are discussed in this section; however, the norms tables have been placed in the appendix where they may be easily accessed for counseling and administrative purposes. Three types of national norms are provided by sex and total group:

1. General norms (Appendix B)

2. Norms for seven vocational-technical program clusters (Appendix C)

3. Norms for five special subgroups as follows: (a) students aged 25 and over; (b) Afro-American/black students; (c) Mexican/Spanish American students; (d) part-time students; (e) students enrolled in transfer programs (Appendix D).

Local norms are also available to institutions through the Career Planning Program Descriptive Summary Service. These norms should be especially useful for institutions enrolling students who are not typical of vocational-technical students in general. To facilitate comparisons between national norms and local norms, similar table sequence and format have been used.

Standard score profiles for vocational-technical program clusters and for students enrolled in transfer programs are presented in Appendix E. Each profile covers both ability and interest measures. As described in Chapter 3, the profiles can be used in helping students explore various vocational-technical program options.

### General Norms

The General Norms are based on the combined group of 10,403 men and 6,438 women who completed all seven Ability Measures. Norms for other CPP measures are usually based on slightly smaller samples because of missing data. For example, normative information for the Scientific Scale of the Vocational Interest Profile was based on 16,700 students because 141 students with all seven Ability Measures lacked scores on the Scientific Scale. The measures for which general norms are provided are listed on the following page. The norms, themselves, are presented in Appendix B.

General Norm Group Measures

1. Ability Measures
2. Vocational Interest Profile
3. Special Competencies
4. High School Grades
5. Self-estimates
6. Goal Orientation
7. Job Values
8. Working Condition Preferences
9. Work Experiences

In addition, means and standard deviations for the Ability Measures are presented by vocational-technical program cluster (tabled as "Educational Program") and by vocational choice.

Trends and Patterns in the General Norms

A few of the major trends and patterns in the normative data are discussed below. The reader interested in making a more detailed analysis may refer to Appendix B.

As expected, consistent sex differences exist for many of the CPP measures. Examples of measures for which men obtained higher scores include Mechanical Skills Ability; Scientific, Electrical, and Mechanical Interests; Special Competency in the Skilled Trades area; and Self-estimates of Mechanical Ability, Mathematical Ability, and Physical Energy. In contrast, women obtained higher scores on scales such as: Clerical Skills Ability; Health, Artistic, Social Service, and Business Detail Interests; Special Competencies in the Home Economics, Artistic, and Community Service areas; and Self-estimates of Academic Motivation, English Ability, and Clerical Ability. In general, men obtained higher scores on the mechanical-technical measures and the females obtained higher scores on the academic, clerical, and social service measures.

Substantial differences among students enrolled in various vocational-technical programs are also evident. Higher mean scores are consistently found on Ability Measures logically related to an educational program. For example, students enrolled in Science, Engineering, and Technology Fields and Trade and Industry Fields obtained their highest mean score on Mechanical Skills. Moreover, the Mechanical Skills means are higher for these two fields than for any other group. Results for vocational choice groups are similar.

## Vocational-Technical Program Cluster Norms

In Appendix C, norms for seven vocational-technical program clusters are presented for the first five measures listed in the previous section. The clusters are listed below along with examples of representative programs:

1. Agriculture, Forestry, and Maritime Fields (Farming, Ranching, and other agricultural production fields; Agricultural Business; Forestry)

2. Persuasion and Marketing Fields (Hotel, Motel, and Restaurant Management; Salesmanship and Retailing)

3. Health Fields (Dental Assisting; Medical Technology; Nursing [registered]; Nursing [practical])

4. Business and Office Fields (Accounting; Computer Programming; Data Processing; Secretarial Science)

5. Science, Engineering, and Technology (Civil Engineering Technology; Electrical or Electronic Engineering Technology)

6. Trade and Industrial Fields (Automobile Mechanics and Technology; Drafting; Graphic Arts; Machinework)

7. Social Science and Public Service Fields (Beautician or Cosmetologist; Fireman; Police Science).

Cluster Norms have been omitted for Home Economics programs and Arts and Humanities programs because of small sample sizes.

## Special Subgroup Norms

Appendix D presents norms for four special subgroups of the general norm group and for one additional group (transfer students). Norms for these particular subgroups are provided because of their relevance to vocational-technical education, counseling, and placement. The sequence of tables for the subgroups corresponds to the table sequence for the Cluster Norms.

A note of caution concerning use of the Special Subgroup Norms is warranted. Because students within these subgroups have had diverse educational experiences, implications of the same normative standing can vary from student to student. For example, the self-report information related to high school grades for adult students will probably be of reduced accuracy and usefulness because of the time interval between high school and postsecondary enrollment. Likewise, students from culturally different backgrounds may not have had the life experiences and educational opportunities which result in high test scores. The Special Subgroup Norms can be used to obtain an indication of how an individual compares with others from similar circumstances. Comparison of an individual's scores with local norms based on students with whom he will compete should also prove useful--both to the student in making educational plans and to the institution in helping him implement them.

# CHAPTER 3

## CAREER PLANNING PROFILE STUDENT REPORT

## MODIFICATIONS AND INTERPRETATIVE AIDS

Several changes in Career Planning Profile reporting procedures have been instituted since publication of the Handbook for the ACT Career Planning Profile, 1970-71 Edition. National percentiles and standard scores are now used on the Student Report instead of the local percentiles initially provided. (Local percentile norms are available as part of Career Planning Program Descriptive Summary Service.) Changes in the format of the Student Report for the Career Planning Profile have also been made, and the interpretative guide presented on the back of the form has been revised. Copies of both, the latter entitled "Information to Help You Understand Your Career Planning Profile Report," are presented in this chapter. Finally, Vocational-Technical Program Cluster Profiles for various programs are described here for the first time. These profiles represent a new interpretative aid of considerable practical importance in guidance and counseling.

Modifications of the interpretative guidelines presented in Chapter 4 of the Handbook are described below. However, this chapter is not meant to replace Chapter 4 in the 1970-71 edition of the Handbook. Rather, it is meant to supplement Career Planning Profile interpretative guidelines until publication of the 1972-73 edition.

### Modifications of the Career Planning Profile Student Report

The front of the Career Planning Profile Student Report (1971 Form) is divided into three main areas or fields (numbered at the left). Changes in each field are discussed below.

#### Changes in Field 1

The upper field has one change which is the addition of the student's present Educational Level. This box is located to the right of the college code and will indicate if the student is a high school junior, senior, or in his first or second year of study after high school. When none of these four options is appropriate, other will be used.

#### Changes in Field 2

The second box in Field 2 has two major changes. The name is now more appropriately given as Special Competencies, and the local percentile ranks have been replaced with a description of the relative number of competencies reported. The labels used on the Student Report are many,

STUDENT REPORT (1971 FORM)

# ACT CAREER PLANNING PROFILE

COLLEGE COPY

96-6010 1971-72 (PHASE 1) ACT CPP Report Form 524-3160

**1**

| FIELD OF STUDY | VOCATIONAL CHOICE | EDUCATIONAL ASPIRATION |
|---|---|---|
| | | |

| COLLEGE CODE | EDUCATIONAL LEVEL | TEST DATE | ENROLLMENT | | STUDENT ASKED FOR HELP WITH | | | | | | | | TIME OF VOCATIONAL CHOICE | SURE ABOUT VOCATIONAL CHOICE? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PART-TIME | FULL-TIME | EMPLOY. | FIN. AID | HOUSING | MAJOR | STUDY | READING | MATH | TECH/MECH | | |
| | | | | | | | | | | | | | | |

THE INTERPRETATIVE MATERIAL ON THE REVERSE SIDE IS IDENTICAL TO THAT PROVIDED THE STUDENT ON HIS SCORE REPORT FORM. HE HAS BEEN ADVISED TO CONSULT HIS COUNSELOR OR ADVISOR FOR A MORE DETAILED EXPLANATION OF HIS SCORES. REFER TO THE CAREER PLANNING PROFILE HANDBOOK AND TECHNICAL SUPPLEMENT.

**2**

## SELF ESTIMATES

| | SELF RATING [1] |
|---|---|
| ACADEMIC MOTIVATION | |
| ADAPTABILITY | |
| ARTISTIC ABILITY | |
| CLERICAL ABILITY | |
| COMMON SENSE | |
| COPING ABILITY | |
| ENGLISH ABILITY | |
| GETTING ALONG WITH OTHERS | |
| LEARNING ABILITY | |
| LIKING SCHOOL | |
| MATHEMATICAL ABILITY | |
| MECHANICAL ABILITY | |
| PHYSICAL ENERGY | |
| SCIENTIFIC ABILITY | |
| SOCIAL SELF-CONFIDENCE | |
| WORK MOTIVATION | |

[1] TT = TOP 10 PERCENT, AA = ABOVE AVERAGE, A = AVERAGE, BA = BELOW AVERAGE

## SPECIAL COMPETENCIES

| | NUMBER REPORTED [2] |
|---|---|
| SKILLED TRADES | |
| SCIENCE | |
| COMMUNITY SERVICE | |
| HOME ECONOMICS | |
| SPORTS | |
| ART | |
| BUSINESS | |
| CLERICAL | |
| LEADERSHIP | |

[2] LABELS INCLUDE: MANY, SOME, FEW, NONE

## WORK ORIENTATION

| | |
|---|---|
| PAST WORK EXPERIENCE | |
| WORK PLANS | |

## GOAL ORIENTATION

| | SELF RATING [3] |
|---|---|
| COMMUNITY SERVICE | |
| FAMILY | |
| FINANCES | |
| JOB | |
| PERSONAL ADJUSTMENT | |

[3] VI = VERY IMPORTANT, I = IMPORTANT, U = UNIMPORTANT, VU = VERY UNIMPORTANT

## JOB VALUES

| | SELF RATING [4] |
|---|---|
| CO-WORKERS | |
| INDEPENDENCE | |
| INTEREST | |
| JOB SECURITY | |
| PAY | |
| RESPONSIBILITY | |

[4] VI = VERY IMPORTANT, I = IMPORTANT, U = UNIMPORTANT, VU = VERY UNIMPORTANT

## WORKING CONDITION PREFERENCES

| | SELF RATING | |
|---|---|---|
| INDOOR | | OUTDOOR |
| WORK WITH OTHERS | | WORK ALONE |
| VARIED WORK | | ROUTINE WORK |
| PHYSICAL WORK | | NONPHYSICAL WORK |

**3**

## VOCATIONAL INTEREST PROFILE

| STANDARD SCORE | SCALE | INTEREST LEVEL | DISLIKE 1 | 2 | NEUTRAL 3 | 4 | LIKE 5 |
|---|---|---|---|---|---|---|---|
| | SCIENTIFIC | | | | | | |
| | HEALTH | | | | | | |
| | ARTISTIC | | | | | | |
| | SOCIAL SERVICE | | | | | | |
| | BUS. CONTACT | | | | | | |
| | BUS. MANAGEMENT | | | | | | |
| | BUS. DETAIL | | | | | | |
| | HOUSEHOLD | | | | | | |
| | TECH-CARPENTRY | | | | | | |
| | TECH-MECHANICAL | | | | | | |
| | TECH-ELECTRICAL | | | | | | |
| | TECH-AGRICULTURE | | | | | | |

## ABILITY MEASURES

| STANDARD SCORE | SCALE | PERCENTILE RANK IN NATIONAL NORM GROUP [5] 1 10 20 30 40 50 60 70 80 90 99 |
|---|---|---|
| | MECHANICAL SKILLS | |
| | NONVERBAL REASONING | |
| | CLERICAL SKILLS | |
| | NUMERICAL COMPUTATION | |
| | MATHEMATICAL REASONING | |
| | SPACE RELATIONS | |
| | READING SKILLS | |

[5] NORMS ARE BASED ON STUDENTS ENTERING POST HIGH SCHOOL VOCATIONAL AND TECHNICAL PROGRAMS.

## HIGH SCHOOL GRADES

| ENGLISH | MATH | SOC. S. | NAT. SCI. | BUSINESS | VOCATION |
|---|---|---|---|---|---|
| | | | | | |

THE AMERICAN COLLEGE TESTING PROGRAM
P.O. BOX 168
IOWA CITY, IOWA 52240

28

29

## INFORMATION TO HELP YOU UNDERSTAND YOUR CAREER PLANNING PROFILE REPORT

WHAT'S IN THIS REPORT? This report organizes and summarizes a wide variety of career-related personal characteristics. Many of these characteristics are relevant to the educational and vocational plans of almost everyone. As you read the descriptions that follow, think of how they relate to the career choices that lie ahead of you.

Your SELF-ESTIMATES might best be considered by noting the way certain scales go together for specific purposes. For example, important aspects of *Technical Ability* are covered by your self-estimates in the Mathematics, Mechanical, and Scientific areas; *Industriousness* is related to Work Motivation, Physical Energy, and Academic Motivation; and ability in the area of *Interpersonal Relations* involves your self-ratings on Getting Along with Others, Social Self-Confidence, and Common Sense. Different occupations involve various amounts of these important but difficult-to-measure characteristics. No doubt you and your counselor can think of other important combinations of your self-estimates.

Now, look at the SPECIAL COMPETENCIES section. This section covers important "can do" type skills seldom measured by tests. Note particularly your skills marked *many*. The number of items you checked in those areas exceeded the number checked by most of the students in the national norm group.

The sections labeled GOAL ORIENTATION and JOB VALUES will be helpful if you consider how well your occupational choices satisfy the goals and values you rated "important" and "very important". The WORKING CONDITION PREFERENCES section relates to general areas found in most jobs and occupations. The location of the "X" with respect to a particular working condition indicates the strength of your preference. The WORK ORIENTATION section is directed to the school to assist you in arranging a reasonable work-study load.

Your INTEREST LEVEL score under the VOCATIONAL INTEREST PROFILE section corresponds directly to how you responded to the questions related to each of the 12 scales. If you said you "liked" or "liked very much" most of the activities on a scale, your *interest level* will be on the "like" side (above 3.0). If you disliked most of the activities on a scale, your interest level will be low (below 3.0). Your STANDARD SCORES on the interest profile may be used to relate your interests to those of other students. For example, from *interest norms* available through your counselor you can see how your interest in the Business Contact area (or interests in any of the other 11 areas) compares with those of students entering business programs of study. Your counselor will also have interest (and ability) norms for several other vocational and technical programs. Remember, interest scores are more related to what you *"like to do"*, than what you *"can do"*.

Your ABILITY MEASURES are "can do" scores and should be examined in terms of their relationship to the kinds of skills and abilities required by your probable field of study and vocational choice. Keep in mind that your HIGH SCHOOL GRADES are also indicators of a special kind of ability. ABILITY MEASURES, together with HIGH SCHOOL GRADES, should assist you in deciding which courses of study will be relatively hard for you and which will be easier.

HOW ACCURATE IS THIS INFORMATION? Many indicators such as SELF-ESTIMATES, WORKING CONDITION PREFERENCES, and JOB VALUES are direct reports of your rating of yourself and are as accurate as your own self-evaluation. Other indicators must be reviewed in light of the measurement procedures that were used. After all, your ability and interest scores might have been different—if slightly different but equally relevant questions had been asked, or if you had written your responses on a different day. In addition, your interest in a given area of activities might change as a result of recent experiences you might have had. Therefore, you should consider your scale scores as estimates rather than precise measures. For example, your STANDARD SCORES can best be thought of as a band or range of scores approximately 10 standard score units wide (5 points above and 5 points below the score you obtained). Likewise, a band or range can be placed around your PERCENTILE RANKS. The percentile bands for your ability scores will vary in size depending on where you score—but the technical details are not important. What is important is that you realize that scores for *all* tests and surveys, including the Career Planning Profile, are estimates, not exact measures. Hence, it is important to consider your scores in the context of other kinds of information about yourself.

HOW SHOULD YOU USE THIS INFORMATION? The major value of this report will be in helping you to explore possible fields of study and to make career decisions. In exploring career choices, you will probably want to find areas where you are likely to obtain both success and satisfaction. Achieving success usually depends more on ability and motivation while satisfaction relates more to your interests, job values, goal orientation, and working condition preferences. You may want to draw upon the knowledge and experience of your parents, counselors, and instructors in order to help you relate your special interests, abilities, and aspirations to possible fields of study and occupations. For example, your counselor can provide you with information on vocational and technical programs and general descriptions of characteristics of students who enter these programs. You may also be able to visit institutions in your area and talk to friends and students enrolled in vocational programs. You must always remember, however, that the final and continuing decisions rest with *you*.

some, few, and none. Students receiving the label "many" for a given scale have indicated a larger number of competencies in that area than approximately 90% of the students in the general norm group. In a similar manner, the label "some" spans the 50th to the 90th percentiles. Students falling below the 50th percentile receive the label "few" except for those indicating no competencies in a given area. This latter group will receive the label "none." The Special Competency scales should be viewed as a means of identifying students with special talent in areas not usually assessed by standardized tests.

Changes in Field 3

The first section in Field 3 has been renamed Vocational Interest Profile, and the format used to present the scores has been changed. The first column now includes normalized standard scores instead of the student's average score for each scale. The student's average score has replaced the local percentile rank and is now reported under the column labeled Interest Level. Each average score can range from 1 (dislike very much) to 5 (like very much). A profile of these average scores has replaced the local percentile profile provided on the previous form.

The area formerly labeled "Test Scores" is now named Ability Measures. Normalized standard scores have been added and local percentiles have been replaced by national percentiles. The national percentiles facilitate the comparison of a student's abilities in the seven areas with those of students in the general norm group.

The normalized standard scores developed for the interest and ability measures range from 20 to 80 with a mean of 50 and a standard deviation of 10. These scores are used in the Vocational-Technical Program Cluster Profiles described below. The standard scores can also be used with the 13 sets of norms presented in the appendixes in addition to the local norms provided through the Career Planning Program Descriptive Summary Service. Hence, the standard scores make it possible to consider a student's interests and abilities in a variety of contexts.

## Interpretative Aids

The reverse side of the Student Report for the Career Planning Profile has been extensively changed. Persons assisting students in the interpretation of Career Planning Profile information should become familiar with the revisions, as much of what appears is not included in the Handbook.

Eighteen Vocational-Technical Program Cluster Profiles are provided in Appendix E. The profiles were developed to indicate, graphically, the standard scores associated with selected percentile ranks (e.g., 10, 25, 50, 75, and 90). A blank profile sheet is included and can be duplicated to

facilitate plotting standard score profiles for students. Locally-prepared transparencies for the Program Cluster Profiles can then be placed over the student's standard score profile in order to compare his abilities and interests with students in various vocational-technical programs. A student's standard scores are most appropriately plotted as a band of 10 units width; that is, 5 units above and 5 units below the standard score the student actually obtained. Use of this band concept takes into account the average standard error of measurement found for the interest and ability measures.

The reader should refer to Chapter 4 of the Handbook for the ACT Career Planning Profile, 1970-71 Edition for other suggestions regarding use and interpretation of information on the Student Report. Two cases are reported, for example, one placing emphasis upon helping a student evaluate the appropriateness of his educational-vocational plans and the other illustrating use of Career Planning Profile information to facilitate exploration of choice options. The Handbook is also the basic resource for descriptions of the various measures in the Career Planning Profile.

# CHAPTER 4

## SUMMARY OF RELIABILITY AND VALIDITY DATA

The reliability and validity data summarized in this chapter are based on students selected from the fall 1970 norming sample. A detailed description of these data and the results of other analyses will be presented in the 1972-73 edition of the Handbook for the ACT Career Planning Profile. Persons interested in previous reliability and validity data and a discussion of the rationale used in constructing Career Planning Profile measures should consult the 1970-71 edition of the Handbook.

### Reliability Data

Two estimates of reliability, internal analysis and test-retest, were obtained for the ability and interest measures. The internal analysis estimates are based on a 10% sample (N = 1,713) of the national norm group. Test-retest estimates are based on 261 students enrolled in a broad range of vocational-technical programs in three norm group institutions.

The internal analysis (alpha) coefficients for the Vocational Interest Profile scales range from .83 to .93 with the median being .88. The test-retest correlations over a 60-day interval range from .73 to .86 with a median of .79. Thus, the Vocational Interest Profile scales show substantial precision of measurement and stability over short time periods.

The seven Ability Measures were designed to cover a broad range of abilities in a relatively short testing time. None of the measures has more than 40 items nor requires more than 20 minutes. The three shortest tests (requiring only 5 minutes each) were also designed to be the most speeded. Test-retest correlations for these three speeded measures, Clerical Skills (.68), Numerical Computation (.79), and Space Relations (.70), indicate satisfactory reliabilities for tests of this length. Internal analysis (alpha) coefficients for Reading Skills (.86), Mechanical Skills (.82), Mathematical Reasoning (.83), and Nonverbal Reasoning (.88) are also relatively high for tests of this type.

Standard errors of measurement based on test-retest reliability data for the Vocational Interest Profile scales range from 4.0 to 5.4 standard score units. The median is 4.7. For the ability measures, the standard errors of measurement range from 3.4 to 6.0 with a median of 4.2.

## Validity Data

It is commonly recognized that there are several types of validity evidence relevant to test use. Basic information on the content and construct validity of Career Planning Profile measures along with preliminary data on criterion-related validity were presented in the 1970-71 edition of the Handbook. A summary of additional data relevant to construct and criterion-related validity follows.

### Vocational Interest Profile Scale Structure

Roe (1956) and Holland (Holland, Whitney, Cole, & Richards, 1969) have proposed a similar structure for vocational interests. In Holland's structural model, six interest types are arranged in a circular order with the following sequence of types around the circumference of the circle: Artistic, Social, Enterprising, Conventional, Realistic, Intellectual, and once again, Artistic. The model specifies that adjacent interests are more similar in nature than those separated by one or more interest types.

As noted in the 1970-71 edition of the Handbook, Vocational Interest Profile scales were constructed to conform to Holland's structural model. For example, the Business Contact scale and the Business Detail scale cover Holland's Enterprising and Conventional interest types, respectively, while the Scientific scale and the four technical scales parallel the Intellectual and Realistic categories.

Analyses of the spatial configuration (Cole & Cole, 1970) of Vocational Interest Profile scales were performed on the correlation matrices for men and women in the national norm group in order to determine the degree to which the scales demonstrated the desired structure. Both analyses yielded a circular configuration of scales largely conforming to the structure described above. The results are similar to those reported on a preliminary sample by Cole and Hanson (1971). Demonstration of the circular configuration for Vocational Interest Profile scales provides evidence crucial to the construct validation of the inventory.

### Differentiation of Vocational-Technical Programs

Another major type of validity evidence relevant to the Career Planning Profile is its ability to differentiate students enrolled in various vocational-technical programs. For example, one would expect substantial differences among the interests, abilities, and working condition preferences of students enrolled in Auto Mechanics, Electrical Engineering Technology, Accounting, and Police Science programs--to name just a few. If students in these and other programs obtain similar scores on the various sections of the Career Planning Profile, serious questions about construct and criterion-related validity could be raised. Evidence of the ability of the Career Planning Profile measures to differentiate students enrolled in various programs was obtained in two ways: discriminant analysis and chi-square analysis.

Discriminant analysis. Discriminant analysis is a statistical technique for finding those combinations of measures in a set of measures which best differentiate members of various groups. Usually, two combinations (or factors) are sufficient to illustrate the main ways in which the groups differ. This was the case for the groups and measures included in the Career Planning Profile analyses.

Figure 1 shows the distribution of selected vocational-technical programs on the two most important factors. The analyses for men and women included 15 and 12 measures, respectively, which were selected from the following sections of the Career Planning Profile: Ability Measures, Vocational Interest Profile, Special Competencies, Self-estimates, and Working Condition Preferences. Factors 1 and 2 carried 52% and 26% of the total discriminating power of the measures used in the analyses for men. The corresponding figures for women were 74% and 13%.

As can be seen from Figure 1, there is substantial differentiation among programs except in instances in which similarities would be expected, e.g., the Electronics and the Electrical Engineering Technology programs for males. The adjacent positions of the Drafting program and the Arts and Humanities cluster is probably due to the large proportion of architectural design and drafting students included in the latter group. Multivariate analyses of variance showed that overall program differentiation achieved for both men and women is very unlikely to be the result of chance.

The Career Planning Profile measures that are most effective in differentiating the vocational programs are shown as anchors on the factor axes in each graph. Factor 1 for the men is basically a scientific-technical dimension with Computer Programming, Electronics, and Electrical Engineering Technology students located toward the end of the factor scale characterized by high electrical and scientific interests. The second factor for the men clearly differentiates students in business-related programs from those in mechanical-technical areas. Other program differences can be analyzed in a similar manner.

The vocational-technical programs shown in Figure 1 consist of newly enrolled students (2,468 males and 1,789 females). When analyses are conducted with students who persist in the various programs and who express satisfaction with their program choice, program differentiation should be even more pronounced. Ultimately, the analyses will involve only "satisfactory and satisfied" employees in occupations related to their vocational-technical training. The follow-up services provided as part of the Career Planning Program will facilitate the collection of data on the career progress of students.

Chi-square analysis. Additional information on the ability of the Career Planning Profile to differentiate among students in various vocational-technical programs was obtained via chi-square analyses of self-report items in the Student Information Section. Separate analyses were conducted for men

*FIGURE 1*

**Distribution of Specific Programs on First Two Discriminant Factors for Selected Career Planning Profile Measures**

*Figure 1A. Males*

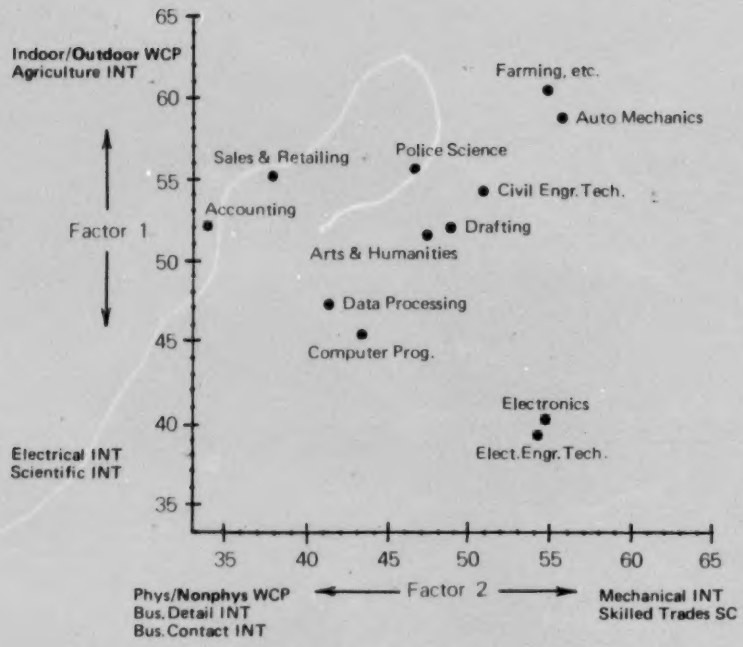
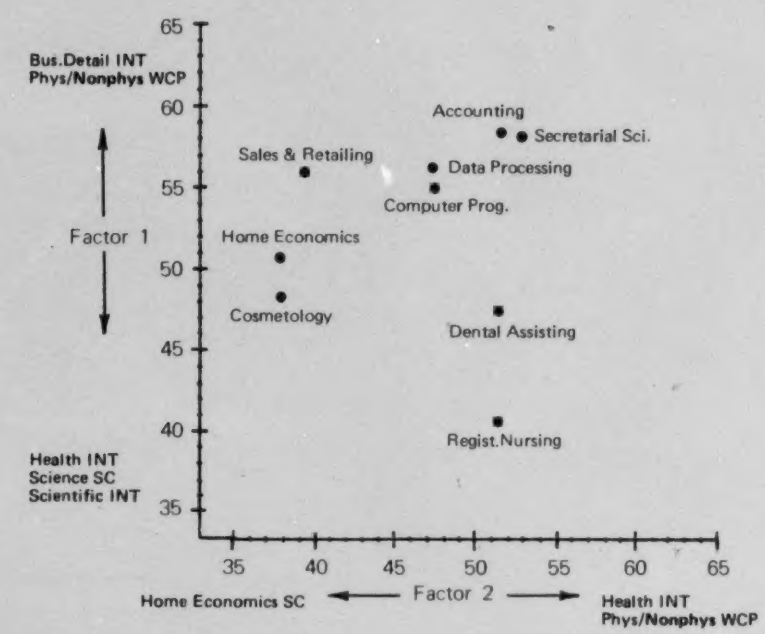



*Figure 1B: Females*




**Note.**–Factor score scales ($\bar{X}$ = 50, SD = 10) are based on all students in groups represented in a figure. All measures correlating with discriminant factors at .40 or higher are shown as factor anchors in rank order according to level of correlation. Where no measure met this criterion, measures with the highest correlations are shown.

Abbreviations used with measures are as follows: **INT** = interests, **WCP** = working condition preferences, **SC** = special competencies.

and women. Differences in item response distributions across the program clusters (eight for males, nine for females) were identified by using the 99.9th percentile point of the chi-square distribution as a screening device to avoid interpreting differences due only to random variation. The chi-square values for 27 of the 31 items included in the analyses exceeded this criterion. The nature of item response differences across the program clusters was then determined for these 27 items.

For each vocational-technical program cluster, the responses to selected Student Information Section items differed in a meaningful way from the responses of other clusters. For example, men enrolled in Trade and Industrial Fields rated themselves higher on the Mechanical Ability Self-estimate and indicated a higher preference for physical labor than did men enrolled in other programs. Men in business-related programs were relatively low in these two areas. On the other hand, men enrolled in health-related programs and programs in Science, Engineering, and Technology Fields rated themselves substantially higher on the Scientific Ability Self-estimate than men in Trade and Industrial Fields. Women in Business and Office Fields were especially high on the Clerical Ability Self-estimate and valued job security and pay to a higher degree than women in other fields. In general, results of the analyses showed that Student Information Section items are tapping personal characteristics relevant to a broad range of vocational and technical programs.

## Prediction of Grades in Vocational-Technical Courses

Estimates of performance in vocational-technical education programs are important considerations in helping students formulate educational and vocational plans. For this reason, the predictive validity of selected Career Planning Profile measures was assessed in terms of how the measures relate to success in postsecondary vocational-technical courses. The criterion of success consisted of the first-term grade-point-average (GPA) earned by students in vocational-technical course work exclusive of general studies or academic courses. Although first-term GPA cannot be considered the ultimate criterion, it should be related to final program success, especially in programs of 2 years duration or less.

Zero-order correlations. Table 10 gives the zero-order correlations of the Ability Measures, Self-estimate Composites, and the average of self-reported high school grades with GPA in 11 program areas. For each program, correlations are given for the two norm group institutions with the largest number of students in that program.

The correlations in Table 10 are generally quite high for the prediction of grades in vocational-technical programs, an area which has historically yielded lower correlations than those found in academic courses. Numerical Computation, Mathematical Reasoning, and Reading Skills appear to be the

TABLE 10

Zero-Order Correlations with Grades
in Selected Vocational-Technical Programs

| Program | Institution code | N | Ability Measures | | | | | | | Self-estimates | | | | HS GPA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | MS | NR | CS | NC | MR | SR | RS | T | A | I | IP | |
| Dental | 10 | 41 | .53 | .40 | .60 | .61 | .57 | .55 | .72 | .22 | .35 | .17 | .12 | .43 |
| Assisting | 12 | 40 | .06 | -.02 | .49 | .57 | .27 | .17 | .40 | -.01 | .36 | .26 | .10 | .49 |
| Nursing | 1 | 53 | .17 | .16 | .63 | .19 | .02 | .10 | .52 | .01 | .06 | .07 | -.05 | .07 |
| (Registered) | 3 | 58 | .11 | -.11 | .06 | .15 | .21 | -.20 | .24 | -.25 | -.18 | .00 | -.33 | .21 |
| Computer | 7 | 58 | .23 | .31 | .39 | .42 | .39 | .34 | .38 | .18 | .11 | .23 | .13 | .27 |
| Programming | 9 | 52 | .36 | .48 | .52 | .58 | .42 | .26 | .25 | .20 | .33 | .06 | -.01 | .33 |
| Secretarial | 5 | 46 | .18 | .49 | .57 | .67 | .69 | .26 | .47 | -.07 | .34 | .19 | -.08 | .60 |
| Science | 6 | 46 | .01 | .25 | .36 | .33 | .22 | .13 | .06 | .24 | .51 | .30 | -.31 | .52 |
| Business & Off. | 8 | 44 | .27 | .20 | .19 | .29 | .48 | .30 | .37 | .15 | .12 | .12 | .22 | .30 |
| (Males) | 13 | 34 | .24 | .37 | .22 | .58 | .49 | .34 | .19 | .38 | .55 | .11 | -.11 | .37 |
| Business & Off. | 2 | 31 | .50 | .07 | .05 | .05 | .17 | .17 | .26 | .02 | -.08 | -.16 | -.31 | .42 |
| (Females) | 4 | 36 | .34 | .33 | .26 | .45 | .36 | .31 | .62 | -.12 | .01 | -.15 | -.16 | -.24 |
| Science & | 13 | 55 | .36 | .11 | .37 | .50 | .58 | .09 | .16 | .31 | .56 | .34 | .16 | .27 |
| Tech. | 12 | 45 | .33 | .22 | .16 | .33 | .40 | .31 | .32 | -.06 | .13 | -.19 | -.27 | .44 |
| Elect. Engr. | 9 | 68 | .23 | .40 | .23 | .58 | .42 | .13 | .30 | .26 | .36 | .09 | -.01 | .33 |
| Tech. | 12 | 64 | .18 | .02 | .30 | .37 | .32 | .14 | .23 | .37 | .30 | .21 | .07 | .23 |
| Trades & | 9 | 197 | .34 | .27 | .22 | .28 | .47 | .20 | .43 | .18 | .27 | .23 | .18 | .41 |
| Industry | 12 | 190 | .27 | .03 | .19 | .30 | .35 | .15 | .29 | .21 | .14 | .26 | .03 | .21 |
| Auto | 9 | 149 | .27 | .19 | .37 | .37 | .37 | .16 | .43 | .18 | .17 | .09 | .07 | .27 |
| Mechanics | 12 | 79 | .45 | .07 | .13 | .22 | .31 | -.04 | .28 | .41 | .28 | .29 | .18 | .19 |
| Drafting | 9 | 53 | .27 | .24 | .38 | .48 | .49 | .18 | .37 | .30 | .30 | .51 | .28 | .29 |
| | 11 | 58 | .34 | .13 | .22 | .13 | .16 | .23 | .34 | .28 | .15 | .32 | -.11 | .20 |

Note.--The three highest correlations for each program have been underlined to facilitate use of the table. Predictors are abbreviated as follows:

Ability Measures: Mechanical Skills--MS, Nonverbal Reasoning--NR, Clerical Skills--CS, Numerical Computation--NC, Mathematical Reasoning--MR, Space Relations--SR, and Reading Skills--RS

Self-estimate Composites: Technical Ability--T, Academic Ability--A, Industriousness--I, Interpersonal Relations--IP

Overall high school GPA--HS GPA

most consistent predictors of grades across the various types of programs, with overall high school GPA and Clerical Skills frequently of importance, also. Institutions participating in the Career Planning Program receive similar data for their own students as part of the In-Program Follow-up Service.

Multiple correlations. Because predictors will be used in combination in the Career Planning Program, multiple correlations must be considered. Multiple correlations for the 11 programs are quite high when all variables are used, even when corrected for statistical bias. However, for the prediction systems that will be used in the Career Planning Program, two restrictions will be introduced. These restrictions are considered in the present analysis so that the results will give an accurate indication of predictive effectiveness which can be achieved in the operational prediction systems of the Career Planning Program. First, not all 12 predictors shown in Table 10 will be included in a multiple prediction equation. Second, in order to predict in small programs (and many vocational programs are small), it will be important to use predictors which are applicable to all (or most) programs of a similar type. For example, a few variables which, in combination, predict grades well in many different Dental Assisting programs must be identified.

Table 11 gives the results of selecting (on logical and empirical grounds) variables which predict well for the program pairs. For each program, the selected variables are listed along with the multiple correlation for each of the selected variables. In the final column, an approximate, unbiased estimate of the multiple correlation (Wherry, 1940) is given in order to provide a more accurate indication of the level of correlation to be expected upon cross-validation. Because the variables were selected on logical as well as empirical grounds and examined in two independent samples, these unbiased estimates of the multiple correlation should not involve much, if any, capitalization on chance relationships.

The predictor variables selected for each field are generally the variables one would expect to be related to grades in that field. For example, Mechanical Skills is included for Trade and Industry Fields, and Space Relations is one of the variables for the Drafting programs. Clerical Skills is included for women enrollees in Secretarial Science and Business and Office Fields, while Nonverbal Reasoning is used for the Computer Programming area. Each of the seven Ability Measures is used in some program, and no single subset of the measures would be adequate for all the programs. Thus, these results support the appropriateness of measuring several types of ability in the Career Planning Profile.

TABLE 11

Multiple Correlations with Vocational-Technical Program Grades for Selected Predictors

| Program | Institution code | Predictors selected[a] | R | Ru |
|---|---|---|---|---|
| Dental | 10 | CS, NC, RS | .77 | .75 |
| Assisting | 12 | | .60 | .55 |
| Nursing | 1 | NC, RS | .53 | .50 |
| (registered) | 3 | | .24 | .15 |
| Computer | 7 | NR, CS, NC, MR | .52 | .46 |
| Programming | 9 | | .64 | .60 |
| Secretarial | 5 | CS, NC | .69 | .67 |
| Science | 6 | | .40 | .35 |
| Business & Off. | 8 | NC, MR, SR | .51 | .45 |
| (Males) | 13 | | .62 | .57 |
| Business & Off. | 2 | MS, CS, RS | .55 | .47 |
| (Females) | 4 | | .64 | .60 |
| Science & | 13 | MS, NC, MR | .45 | .39 |
| Tech. | 12 | | .66 | .63 |
| Elect. Engr. | 9 | NC, MR | .58 | .56 |
| Tech. | 12 | | .39 | .35 |
| Trades & | 9 | MS, NC, MR, RS | .53 | .51 |
| Industry | 12 | | .38 | .35 |
| Auto | 9 | MS, NC, RS | .49 | .47 |
| Mechanics | 12 | | .46 | .42 |
| Drafting | 9 | MS, NC, SR, RS | .57 | .52 |
| | 11 | | .42 | .34 |

Note.--$R_u$ is the Wherry (1940) approximate correction for bias of R. In all cases, Wherry's corrected estimate of multiple correlation was slightly less than the unbiased estimate of the multiple correlation due to Olkin and Pratt (1958). Thus, the more conservative estimate was used.

[a]The same predictors were selected for both institutions in a pair. Predictors are abbreviated as follows: Mechanical Skills--MS, Nonverbal Reasoning--NR, Clerical Skills--CS, Numerical Computation--NC, Mathematical Reasoning--MR, Space Relations--SR, and Reading Skills--RS.

The corrected multiple correlations in Table 11 range from .15 to .75 with a median of .50. Multiple correlations of this magnitude are quite high when compared with values historically obtained in predicting success in job training and vocational-technical programs. In fact, these values compare favorably with the prediction of academic course grades achieved by traditional academic aptitude tests.

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## APPENDIXES


APPENDIX A INSTITUTIONS ADMINISTERING THE CPP DURING THE NATIONAL NORMING PERIOD

APPENDIX B GENERAL NORMS

APPENDIX C VOCATIONAL-TECHNICAL PROGRAM CLUSTER NORMS

APPENDIX D SPECIAL SUBGROUP NORMS

APPENDIX E PROGRAM CLUSTER PROFILES

## APPENDIX A

### INSTITUTIONS ADMINISTERING THE CPP DURING THE NATIONAL NORMING PERIOD

The following institutions administered the Career Planning Profile during the national norming period. Only the institutions that have an asterisk before their name were included in the national norm group:

*Douglas MacArthur State Technical Institute, Opp, Alabama
*Wallace State Technical Junior College, Dothan, Alabama
*Jefferson State Junior College, Birmingham, Alabama
*Theodore Lawson State Junior College, Birmingham, Alabama
*Anchorage Community College, Anchorage, Alaska
*Central Arizona College, Coolidge, Arizona
*Maricopa Technical College, Phoenix, Arizona
*Navajo Community College, Chinle, Arizona
*Phoenix College, Phoenix, Arizona
*College of the Redwoods, Eureka, California
*College of San Mateo, San Mateo, California
*College of the Sequoias, Visalia, California
*College of the Siskiyous, Weed, California
East Los Angeles Junior College, Los Angeles, California
*Fresno City College, Fresno, California
*Gavilan College, Gilroy, California
*Pierce College, Woodland Hills, California
*Modesto Junior College, Modesto, California
*Pasadena City College, Pasadena, California
*Porterville College, Porterville, California
*Santa Barbara City College, Santa Barbara, California
*Santa Rosa Junior College, Santa Rosa, California
*Solano Community College, Suison City, California
*West Hills College, Coalinga, California
*Aims College, Greeley, Colorado
*Community College of Denver-North Campus, Denver, Colorado
*Community College of Denver-West Campus, Denver, Colorado
Broward Junior College, Ft. Lauderdale, Florida
Central Florida Junior College, Ocala, Florida
Daytona Beach Junior College, Daytona Beach, Florida
Edison Junior College, Ft. Myers, Florida
Florida Junior College at Jacksonville, Jacksonville, Florida
*Hillsborough Junior College, Tampa, Florida
Lake City Junior College, Lake City, Florida
*Lake County Vocational-Technical Center, Eustis, Florida
Lake-Sumter Community College, Leesburg, Florida
Lewis M. Lively Area Vocational-Technical Center, Tallahassee, Florida
Lindsey-Hopkins Education Center, Miami, Florida
Manatee County Vocational-Technical Center, Bradenton, Florida
*Manatee Junior College, Bradenton, Florida

Miami-Dade Junior College-North Campus, Miami, Florida
Miami-Dade Junior College-South Campus, Miami, Florida
*Mid-Florida Technical Institute, Orlando, Florida
*North Technical Education Center, Riviera Beach, Florida
Okaloosa-Walton Junior College, Niceville, Florida
*Palm Beach Junior College, Lake Worth, Florida
Pinellas Technical Education Center, Clearwater, Florida
Polk Junior College, Winter Haven, Florida
*Polk Vocational Technical Center, Lakeland, Florida
*St. Johns River Junior College, Palatka, Florida
St. Petersburg Junior College, St. Petersburg, Florida
Santa Fe Junior College, Gainesville, Florida
*Sarasota County Vocational-Technical Center, Sarasota, Florida
Seminole Junior College, Sanford, Florida
*Sheridan Vocational Center, Hollywood, Florida
Tampa Bay Vocational-Technical Center, Tampa, Florida
*Valencia Junior College, Orlando, Florida
*Leeward Community College, Pearl City, Hawaii
*Vocational-Technical School, Idaho State University, Pocatello, Idaho
*North Idaho Junior College, Coeur D'Alene, Idaho
Black Hawk College, Moline, Illinois
*Carl Sandburg College, Galesburg, Illinois
*Kaskaskia College, Centralia, Illinois
*Parkland College, Champaign, Illinois
Vocational-Technical Institute, Southern Illinois University, Carbondale, Illinois
Drake University, Des Moines, Iowa
*Kirkwood Community College, Cedar Rapids, Iowa
*Cowley County Community College, Arkansas City, Arkansas
*Hutchinson Community Junior College, Hutchinson, Kansas
*Kansas City Area Vocational-Technical School, Kansas City, Kansas
*Kansas Technical Institute, Salina, Kansas
*North Central Kansas Area Vocational-Technical School, Beloit, Kansas
*Ashland Community College, Ashland, Kentucky
*Jefferson Community College, Louisville, Kentucky
*Somerset Community College, Somerset, Kentucky
*Allegany Community College, Cumberland, Maryland
*Catonsville Community College, Catonsville, Maryland
*Frederick Community College, Frederick, Maryland
Fisher Junior College, Boston, Massachusetts
*Kellogg Community College, Battle Creek, Michigan
*Anoka-Ramsey State Junior College, Coon Rapids, Minnesota
University of Minnesota Technical College, Crookston, Minnesota
*Jones County Junior College, Ellisville, Mississippi
*Flathead Valley Community College, Kalispell, Montana
*Nevada Technical Institute, Reno, Nevada
*Camden County College, Blackwood, New Jersey

*Cape May County Vocational-Technical Center, Cape May Court House, N. J.
*Ocean County College, Tom's River, New Jersey
*Union County Vocational-Technical Schools, Scotch Plains, New Jersey
*New Mexico Junior College, Hobbs, New Mexico
*Alfred Agricultural & Technological College, Alfred, New York
*Catawba Valley Technical Institute, Hickory, North Carolina
*James Sprunt Institute, Kenansville, North Carolina
*Lenoir Community College, Kinston, North Carolina
*Nash Technical Institute, Rocky Mount, North Carolina
*Pitt Technical Institute, Greenville, North Carolina
*North Dakota State School of Science, Wahpeton, North Dakota
*Penta Technical Institute, Perrysburg, Ohio
*Eastern Oklahoma State College, Wilburton, Oklahoma
*Northern Oklahoma College, Tonkawa, Oklahoma
*Oklahoma State Technical Training School, Okmulgee, Oklahoma
*Oklahoma State University, The Technical Institute, Oklahoma City, Oklahoma
*Chemeketa Community College, Salem, Oregon
*Clackamas Community College, Oregon City, Oregon
*Portland Community College, Portland, Oregon
*Community College of Delaware County, Media, Pennsylvania
*Montgomery County Community College, Conshohocken, Pennsylvania
*Rhode Island Junior College, Providence, Rhode Island
*Orangeburg-Calhoun Technical Ed. Center, Orangeburg, South Carolina
*Piedmont Technical Education Center, Greenwood, South Carolina
*York County Technical Education Center, Rock Hill, South Carolina
*Lee College, Baytown, Texas
*San Antonio College, San Antonio, Texas
*Utah Technical College at Salt Lake, Salt Lake City, Utah
*Bellevue Community College, Bellevue, Washington
*Columbia Basin College, Pasco, Washington
*Everett Junior College, Everett, Washington
*Green River Community College, Auburn, Washington
*Olympic Junior College, Bremerton, Washington
*Seattle Central Community College, Seattle, Washington
*Spokane Community College, Spokane, Washington
*Walla Walla Community College, Walla Walla, Washington
*Yakima Valley College, Yakima, Washington
*Potomac State College, Keyser, West Virginia
*Milwaukee Area Technical Institute, Milwaukee, Wisconsin

## APPENDIX B

## GENERAL NORMS


Table B. 1 Distribution of Test Scores (Ability Measures)

Table B. 2 Distribution of Vocational Interests

Table B. 3 Distribution of Special Competencies

Table B. 4 Distribution of High School Grades

Table B. 5 Distribution of Self-Estimates of Skills

Table B. 6 Means and Standard Deviations for CPP Tests by Educational Program

Table B. 7 Means and Standard Deviations for CPP Tests by Vocational Choice

Table B. 8 Distribution of Goals and Job Values

Table B. 9 Distribution of Working Condition Preferences

Table B. 10 Distribution of Work Experiences

*APPENDIX B*

## NATIONAL NORMS

### TABLE B.1—DISTRIBUTION OF TEST SCORES (IN PERCENTILES)

| | MECHANICAL SKILLS | | | NONVERBAL REASONING | | | CLERICAL SKILLS | | | NUMERICAL COMPUTATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 99 | 99 | 98 | 99 | 98 | 98 | 97 | 98 | 98 | 98 | 98 | 71-75 |
| 66-70 | 94 | 99 | 96 | 96 | 96 | 96 | 95 | 92 | 94 | 96 | 95 | 96 | 66-70 |
| 61-65 | 84 | 99 | 90 | 89 | 89 | 89 | 90 | 86 | 88 | 89 | 88 | 89 | 61-65 |
| 56-60 | 67 | 95 | 78 | 79 | 78 | 79 | 82 | 75 | 79 | 77 | 77 | 77 | 56-60 |
| 51-55 | 45 | 86 | 61 | 63 | 61 | 62 | 66 | 57 | 63 | 60 | 59 | 60 | 51-55 |
| 46-50 | 28 | 69 | 43 | 42 | 41 | 42 | 47 | 38 | 44 | 43 | 41 | 42 | 46-50 |
| 41-45 | 14 | 45 | 26 | 25 | 24 | 25 | 28 | 22 | 26 | 25 | 24 | 25 | 41-45 |
| 36-40 | 6 | 23 | 12 | 12 | 12 | 12 | 13 | 11 | 12 | 12 | 10 | 11 | 36-40 |
| 31-35 | 2 | 9 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 31-35 |
| 26-30 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | 10403 | | | 10403 | | | 10403 | | | 10403 | | | MEN |
| WOMEN | 6438 | | | 6438 | | | 6438 | | | 6438 | | | WOMEN |
| TOTAL | 16841 | | | 16841 | | | 16841 | | | 16841 | | | TOTAL |
| | M | W | T | M | W | T | M | W | T | M | W | T | |
| MEAN | 53.7 | 44.3 | 50.1 | 49.9 | 50.1 | 50.0 | 49.4 | 51.4 | 50.1 | 49.9 | 50.4 | 50.1 | MEAN |
| S.D. | 9.4 | 7.9 | 10.0 | 10.0 | 10.1 | 10.0 | 10.2 | 10.8 | 10.5 | 10.1 | 10.0 | 10.1 | S.D. |

| | MATHEMATICAL REASONING | | | SPACE RELATIONS | | | READING SKILLS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 99 | 99 | 98 | 99 | 99 | 99 | 99 | 99 | 71-75 |
| 66-70 | 94 | 97 | 96 | 94 | 99 | 96 | 96 | 96 | 96 | 66-70 |
| 61-65 | 86 | 93 | 89 | 87 | 96 | 90 | 89 | 88 | 89 | 61-65 |
| 56-60 | 74 | 85 | 78 | 73 | 88 | 79 | 77 | 75 | 76 | 56-60 |
| 51-55 | 55 | 69 | 60 | 53 | 73 | 60 | 61 | 59 | 60 | 51-55 |
| 46-50 | 33 | 46 | 38 | 33 | 52 | 40 | 42 | 40 | 42 | 46-50 |
| 41-45 | 20 | 30 | 24 | 19 | 32 | 24 | 24 | 23 | 24 | 41-45 |
| 36-40 | 12 | 18 | 14 | 10 | 17 | 13 | 12 | 11 | 11 | 36-40 |
| 31-35 | 5 | 9 | 7 | 6 | 9 | 7 | 5 | 4 | 5 | 31-35 |
| 26-30 | 3 | 5 | 4 | 3 | 4 | 3 | 2 | 1 | 1 | 26-30 |
| 20-25 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | 10403 | | | 10403 | | | 10403 | | | MEN |
| WOMEN | 6438 | | | 6438 | | | 6438 | | | WOMEN |
| TOTAL | 16841 | | | 16841 | | | 16841 | | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 51.3 | 47.7 | 49.9 | 51.8 | 47.0 | 50.0 | 49.9 | 50.5 | 50.2 | MEAN |
| S.D. | 10.3 | 10.1 | 10.4 | 10.5 | 9.4 | 10.3 | 9.9 | 9.9 | 9.9 | S.D. |

*APPENDIX B*

**NATIONAL NORMS**

**TABLE B.2–DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)**

| | SCIENTIFIC | | | HEALTH | | | ARTISTIC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 99 | 99 | 99 | 98 | 99 | 99 | 98 | 99 | 71-75 |
| 66-70 | 95 | 99 | 96 | 99 | 92 | 97 | 98 | 93 | 96 | 66-70 |
| 61-65 | 87 | 96 | 91 | 97 | 78 | 90 | 94 | 84 | 90 | 61-65 |
| 56-60 | 73 | 89 | 79 | 91 | 56 | 78 | 85 | 67 | 78 | 56-60 |
| 51-55 | 54 | 76 | 62 | 79 | 37 | 63 | 71 | 48 | 62 | 51-55 |
| 46-50 | 34 | 58 | 43 | 57 | 22 | 43 | 52 | 30 | 43 | 46-50 |
| 41-45 | 18 | 39 | 26 | 33 | 11 | 24 | 30 | 14 | 24 | 41-45 |
| 36-40 | 8 | 21 | 13 | 16 | 5 | 12 | 14 | 6 | 11 | 36-40 |
| 31-35 | 3 | 10 | 5 | 7 | 2 | 5 | 6 | 3 | 5 | 31-35 |
| 26-30 | 1 | 4 | 2 | 3 | 1 | 2 | 2 | 1 | 2 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | 10316 | | | 10297 | | | 10312 | | | MEN |
| WOMEN | 6384 | | | 6378 | | | 6381 | | | WOMEN |
| TOTAL | 16700 | | | 16675 | | | 16693 | | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 52.4 | 46.3 | 50.1 | 46.6 | 55.6 | 50.0 | 48.0 | 53.4 | 50.0 | MEAN |
| S.D. | 9.5 | 9.6 | 10.0 | 8.6 | 9.6 | 10.0 | 9.4 | 9.6 | 9.8 | S.D. |

| | SOCIAL SERV. | | | BUS. CONTACT | | | BUS. MANAG. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 97 | 99 | 99 | 98 | 99 | 98 | 99 | 99 | 71-75 |
| 66-70 | 99 | 92 | 96 | 97 | 94 | 96 | 95 | 98 | 96 | 66-70 |
| 61-65 | 97 | 82 | 91 | 92 | 86 | 90 | 87 | 94 | 90 | 61-65 |
| 56-60 | 89 | 61 | 79 | 84 | 72 | 79 | 74 | 87 | 78 | 56-60 |
| 51-55 | 77 | 39 | 62 | 68 | 52 | 62 | 55 | 74 | 63 | 51-55 |
| 46-50 | 58 | 21 | 44 | 48 | 32 | 42 | 35 | 57 | 44 | 46-50 |
| 41-45 | 35 | 8 | 25 | 30 | 17 | 25 | 18 | 36 | 25 | 41-45 |
| 36-40 | 17 | 2 | 12 | 14 | 7 | 11 | 7 | 18 | 11 | 36-40 |
| 31-35 | 7 | 1 | 5 | 5 | 2 | 4 | 3 | 8 | 5 | 31-35 |
| 26-30 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 3 | 2 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | 10292 | | | 10313 | | | 10227 | | | MEN |
| WOMEN | 6376 | | | 6384 | | | 6345 | | | WOMEN |
| TOTAL | 16668 | | | 16697 | | | 16572 | | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 46.4 | 55.5 | 49.9 | 48.5 | 52.4 | 50.0 | 52.0 | 47.0 | 50.1 | MEAN |
| S.D. | 9.0 | 8.6 | 9.9 | 9.8 | 9.4 | 9.9 | 9.5 | 9.8 | 9.9 | S.D. |

**TABLE B.2–DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)––CONTINUED**

| | BUS. DETAIL | | | HOUSEHOLD | | | CARPENTRY | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 97 | 99 | 99 | 97 | 99 | 98 | 99 | 99 | 71-75 |
| 66-70 | 98 | 92 | 96 | 99 | 91 | 96 | 94 | 99 | 96 | 66-70 |
| 61-65 | 94 | 81 | 89 | 98 | 79 | 91 | 85 | 98 | 90 | 61-65 |
| 56-60 | 87 | 66 | 79 | 93 | 57 | 79 | 68 | 94 | 78 | 56-60 |
| 51-55 | 72 | 49 | 63 | 82 | 34 | 63 | 46 | 83 | 60 | 51-55 |
| 46-50 | 49 | 31 | 42 | 60 | 16 | 43 | 27 | 66 | 42 | 46-50 |
| 41-45 | 29 | 17 | 24 | 35 | 6 | 24 | 13 | 45 | 26 | 41-45 |
| 36-40 | 14 | 9 | 12 | 18 | 2 | 12 | 5 | 24 | 12 | 36-40 |
| 31-35 | 5 | 3 | 5 | 8 | 1 | 5 | 2 | 10 | 5 | 31-35 |
| 26-30 | 2 | 1 | 2 | 3 | 1 | 2 | 1 | 3 | 2 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | 10274 | | | 10332 | | | 10285 | | | MEN |
| WOMEN | 6360 | | | 6394 | | | 6367 | | | WOMEN |
| TOTAL | 16634 | | | 16726 | | | 16652 | | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 47.9 | 53.2 | 49.9 | 45.7 | 56.6 | 49.9 | 53.5 | 44.4 | 50.0 | MEAN |
| S.D. | 9.1 | 10.3 | 9.9 | 8.2 | 8.5 | 9.9 | 9.0 | 8.6 | 9.9 | S.D. |

| | AGRICULTURE | | | MECHANICAL | | | ELECTRICAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 99 | 99 | 98 | 99 | 99 | 98 | 99 | 99 | 71-75 |
| 66-70 | 95 | 98 | 96 | 94 | 99 | 96 | 94 | 99 | 96 | 66-70 |
| 61-65 | 86 | 94 | 89 | 84 | 99 | 90 | 83 | 99 | 89 | 61-65 |
| 56-60 | 73 | 87 | 78 | 61 | 99 | 75 | 65 | 98 | 78 | 56-60 |
| 51-55 | 56 | 76 | 64 | 32 | 92 | 55 | 41 | 88 | 59 | 51-55 |
| 46-50 | 35 | 56 | 43 | 13 | 75 | 37 | 19 | 69 | 38 | 46-50 |
| 41-45 | 17 | 36 | 24 | 5 | 52 | 23 | 7 | 46 | 22 | 41-45 |
| 36-40 | 7 | 19 | 12 | 1 | 30 | 12 | 2 | 25 | 11 | 36-40 |
| 31-35 | 2 | 8 | 4 | 1 | 16 | 7 | 1 | 11 | 5 | 31-35 |
| 26-30 | 1 | 3 | 2 | 1 | 9 | 3 | 1 | 5 | 2 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 20-25 |
| MEN | 10290 | | | 10337 | | | 10287 | | | MEN |
| WOMEN | 6371 | | | 6394 | | | 6367 | | | WOMEN |
| TOTAL | 16661 | | | 16731 | | | 16654 | | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 52.1 | 46.7 | 50.1 | 56.1 | 41.7 | 50.6 | 54.8 | 43.2 | 50.4 | MEAN |
| S.D. | 9.5 | 9.7 | 9.9 | 7.3 | 8.5 | 10.5 | 8.1 | 8.2 | 9.9 | S.D. |

*APPENDIX B*

**NATIONAL NORMS**

**TABLE B.3—DISTRIBUTION OF SPECIAL COMPETENCIES**

| | SKILLED TRADES | | | HOME ECONOMICS | | | SCIENTIFIC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 113 | 2402 | 2515 | 1352 | 29 | 1381 | 574 | 550 | 1124 | 0 |
| 1 | 106 | 823 | 929 | 1159 | 73 | 1232 | 804 | 739 | 1543 | 1 |
| 2 | 192 | 814 | 1006 | 1410 | 129 | 1539 | 1402 | 1182 | 2584 | 2 |
| 3 | 332 | 612 | 944 | 1233 | 187 | 1420 | 1579 | 1051 | 2630 | 3 |
| 4 | 358 | 363 | 721 | 1060 | 292 | 1352 | 1428 | 855 | 2283 | 4 |
| 5 | 446 | 231 | 677 | 943 | 415 | 1358 | 1276 | 625 | 1901 | 5 |
| 6 | 505 | 130 | 635 | 737 | 461 | 1198 | 1023 | 417 | 1440 | 6 |
| 7-8 | 1154 | 149 | 1303 | 1002 | 1195 | 2197 | 1184 | 444 | 1628 | 7-8 |
| 9-10 | 1359 | 100 | 1459 | 514 | 1284 | 1798 | 418 | 144 | 562 | 9-10 |
| 11-12 | 1379 | 125 | 1504 | 225 | 1172 | 1397 | | | | 11-12 |
| 13-14 | 1300 | 26 | 1326 | 75 | 963 | 1038 | | | | 13-14 |
| OVER 14 | 2845 | 76 | 2921 | | | | | | | OVER 14 |
| N-CT | 10089 | 5851 | 15940 | 9710 | 6200 | 15910 | 9688 | 6007 | 15695 | N-CT |
| MEAN | 11.1 | 2.2 | 7.9 | 3.8 | 8.8 | 5.7 | 4.1 | 3.3 | 3.8 | MEAN |
| S.D. | 5.0 | 3.4 | 6.2 | 3.0 | 3.3 | 4.0 | 2.4 | 2.2 | 2.4 | S.D. |

| | SPORTS | | | ARTISTIC | | | COMMUNITY SERV. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 232 | 442 | 674 | 1568 | 196 | 1764 | 4505 | 1075 | 5580 | 0 |
| 1 | 440 | 1026 | 1466 | 1439 | 335 | 1774 | 1696 | 1025 | 2721 | 1 |
| 2 | 790 | 1337 | 2127 | 1563 | 579 | 2142 | 1310 | 1134 | 2444 | 2 |
| 3 | 1106 | 1058 | 2164 | 1358 | 705 | 2063 | 910 | 934 | 1844 | 3 |
| 4 | 1293 | 780 | 2073 | 1088 | 785 | 1873 | 483 | 657 | 1140 | 4 |
| 5 | 1329 | 496 | 1825 | 781 | 755 | 1536 | 326 | 462 | 788 | 5 |
| 6 | 1167 | 298 | 1465 | 558 | 676 | 1234 | 197 | 314 | 511 | 6 |
| 7-8 | 1926 | 244 | 2170 | 722 | 1039 | 1761 | 220 | 321 | 541 | 7-8 |
| 9-10 | 1032 | 102 | 1134 | 285 | 642 | 927 | 85 | 129 | 214 | 9-10 |
| 11-12 | 342 | 99 | 441 | 148 | 271 | 419 | | | | 11-12 |
| 13-14 | | | | 52 | 111 | 163 | | | | 13-14 |
| OVER 14 | | | | 27 | 23 | 50 | | | | OVER 14 |
| N-CT | 9657 | 5882 | 15539 | 9589 | 6117 | 15706 | 9732 | 6051 | 15783 | N-CT |
| MEAN | 5.4 | 3.1 | 4.5 | 3.2 | 5.4 | 4.1 | 1.5 | 2.7 | 1.9 | MEAN |
| S.D. | 2.7 | 2.3 | 2.8 | 2.8 | 3.1 | 3.1 | 2.0 | 2.3 | 2.2 | S.D. |

| | BUSINESS | | | LEADERSHIP | | | CLERICAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 145 | 291 | 436 | 1533 | 436 | 1969 | 1021 | 283 | 1304 | 0 |
| 1 | 549 | 604 | 1153 | 1401 | 651 | 2052 | 1419 | 488 | 1907 | 1 |
| 2 | 1017 | 1111 | 2128 | 1449 | 939 | 2388 | 1581 | 706 | 2287 | 2 |
| 3 | 1447 | 1206 | 2653 | 1237 | 852 | 2089 | 1324 | 691 | 2015 | 3 |
| 4 | 1507 | 1030 | 2537 | 1030 | 776 | 1806 | 1170 | 683 | 1853 | 4 |
| 5 | 1461 | 778 | 2239 | 785 | 660 | 1445 | 842 | 608 | 1450 | 5 |
| 6 | 1198 | 501 | 1699 | 554 | 508 | 1062 | 616 | 531 | 1147 | 6 |
| 7-8 | 1370 | 360 | 1730 | 706 | 760 | 1466 | 791 | 937 | 1728 | 7-8 |
| 9-10 | 571 | 102 | 673 | 359 | 325 | 684 | 407 | 657 | 1064 | 9-10 |
| 11-12 | 186 | 54 | 240 | 160 | 90 | 250 | 153 | 365 | 518 | 11-12 |
| 13-14 | 32 | 18 | 50 | | | | 56 | 132 | 188 | 13-14 |
| OVER 14 | 67 | 34 | 101 | | | | 29 | 24 | 53 | OVER 14 |
| N-CT | 9550 | 6089 | 15639 | 9214 | 5997 | 15211 | 9409 | 6105 | 15514 | N-CT |
| MEAN | 4.9 | 3.7 | 4.4 | 3.2 | 4.0 | 3.5 | 3.6 | 5.3 | 4.3 | MEAN |
| S.D. | 2.6 | 2.4 | 2.6 | 2.7 | 2.7 | 2.7 | 2.9 | 3.4 | 3.2 | S.D. |

*APPENDIX B*

## NATIONAL NORMS

### TABLE B.4—DISTRIBUTION OF HIGH SCHOOL GRADES

MEN STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 402 | 4 | 677 | 7 | 783 | 8 | 564 | 5 | 712 | 7 | 2183 | 21 |
| B | 2583 | 25 | 2366 | 23 | 3152 | 30 | 2610 | 25 | 2127 | 20 | 2926 | 28 |
| C | 5431 | 52 | 4684 | 45 | 4595 | 44 | 4509 | 43 | 2425 | 23 | 1536 | 15 |
| D | 1473 | 14 | 1791 | 17 | 1008 | 10 | 1245 | 12 | 439 | 4 | 172 | 2 |
| F | 124 | 1 | 276 | 3 | 71 | 1 | 121 | 1 | 72 | 1 | 24 | |
| NOT TAKEN | 390 | 4 | 609 | 6 | 794 | 8 | 1354 | 13 | 4628 | 44 | 3562 | 34 |
| MEAN | 2.17 | | 2.14 | | 2.37 | | 2.25 | | 2.51 | | 3.03 | |
| S.D. | .766 | | .891 | | .807 | | .817 | | .850 | | .821 | |
| NO. STUDENTS | 10,403 | | 10,403 | | 10,403 | | 10,403 | | 10,403 | | 10,403 | |

WOMEN STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 1089 | 17 | 567 | 9 | 1075 | 17 | 632 | 10 | 1387 | 22 | 1442 | 22 |
| B | 3029 | 47 | 1906 | 30 | 2577 | 40 | 2162 | 34 | 2222 | 35 | 1694 | 26 |
| C | 1946 | 30 | 2765 | 43 | 2134 | 33 | 2488 | 39 | 1302 | 20 | 626 | 10 |
| D | 186 | 3 | 773 | 12 | 260 | 4 | 407 | 6 | 135 | 2 | 26 | |
| F | 12 | | 70 | 1 | 9 | | 38 | 1 | 14 | | 5 | |
| NOT TAKEN | 176 | 3 | 357 | 6 | 383 | 6 | 711 | 11 | 1378 | 21 | 2645 | 41 |
| MEAN | 2.80 | | 2.35 | | 2.73 | | 2.51 | | 2.96 | | 3.20 | |
| S.D. | .762 | | .859 | | .803 | | .808 | | .813 | | .739 | |
| NO. STUDENTS | 6,438 | | 6,438 | | 6,438 | | 6,438 | | 6,438 | | 6,438 | |

TOTAL STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 1491 | 9 | 1244 | 7 | 1858 | 11 | 1196 | 7 | 2099 | 12 | 3625 | 22 |
| B | 5612 | 33 | 4272 | 25 | 5729 | 34 | 4772 | 28 | 4349 | 26 | 4620 | 27 |
| C | 7377 | 44 | 7449 | 44 | 6729 | 40 | 6997 | 42 | 3727 | 22 | 2162 | 13 |
| D | 1659 | 10 | 2564 | 15 | 1268 | 8 | 1652 | 10 | 574 | 3 | 198 | 1 |
| F | 136 | 1 | 346 | 2 | 80 | | 159 | 1 | 86 | 1 | 29 | |
| NOT TAKEN | 566 | 3 | 966 | 6 | 1177 | 7 | 2065 | 12 | 6006 | 36 | 6207 | 37 |
| MEAN | 2.41 | | 2.22 | | 2.51 | | 2.35 | | 2.72 | | 3.09 | |
| S.D. | .824 | | .885 | | .824 | | .823 | | .862 | | .797 | |
| NO. STUDENTS | 16,841 | | 16,841 | | 16,841 | | 16,841 | | 16,841 | | 16,841 | |

*APPENDIX B*

## NATIONAL NORMS

### TABLE B.5—DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)

| | | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
| ACADEMIC MOTIVATION | MEN | 10372 | 6 | 59 | 29 | 6 |
| | WOMEN | 6404 | 3 | 51 | 37 | 9 |
| | TOTAL | 16776 | 5 | 56 | 32 | 7 |
| ADAPTABILITY | MEN | 10364 | 5 | 54 | 35 | 6 |
| | WOMEN | 6417 | 4 | 56 | 34 | 6 |
| | TOTAL | 16781 | 5 | 55 | 34 | 6 |
| ARTISTIC ABILITY | MEN | 10336 | 41 | 37 | 18 | 4 |
| | WOMEN | 6378 | 35 | 43 | 19 | 3 |
| | TOTAL | 16714 | 39 | 40 | 18 | 4 |
| CLERICAL ABILITY | MEN | 10318 | 27 | 54 | 16 | 3 |
| | WOMEN | 6402 | 15 | 54 | 26 | 5 |
| | TOTAL | 16720 | 22 | 54 | 20 | 4 |
| COMMON SENSE | MEN | 10366 | 2 | 43 | 44 | 11 |
| | WOMEN | 6422 | 2 | 52 | 37 | 8 |
| | TOTAL | 16788 | 2 | 47 | 41 | 10 |
| COPING ABILITY | MEN | 10362 | 7 | 60 | 29 | 5 |
| | WOMEN | 6412 | 7 | 65 | 25 | 3 |
| | TOTAL | 16774 | 7 | 62 | 27 | 4 |
| ENGLISH ABILITY | MEN | 10358 | 27 | 57 | 14 | 2 |
| | WOMEN | 6417 | 11 | 60 | 24 | 5 |
| | TOTAL | 16775 | 21 | 58 | 18 | 3 |
| GETTING ALONG | MEN | 10369 | 3 | 43 | 43 | 12 |
| | WOMEN | 6416 | 2 | 41 | 46 | 12 |
| | TOTAL | 16785 | 2 | 42 | 44 | 12 |

**TABLE B.5—DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)—CONTINUED**

| | | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
| LEARNING ABILITY | MEN | 10366 | 8 | 63 | 25 | 4 |
| | WOMEN | 6421 | 7 | 66 | 24 | 4 |
| | TOTAL | 16787 | 7 | 64 | 25 | 4 |
| LIKING SCHOOL | MEN | 10376 | 12 | 57 | 26 | 5 |
| | WOMEN | 6424 | 6 | 51 | 33 | 9 |
| | TOTAL | 16800 | 10 | 55 | 29 | 7 |
| MATHEMATICAL ABILITY | MEN | 10376 | 25 | 51 | 21 | 4 |
| | WOMEN | 6423 | 39 | 48 | 11 | 2 |
| | TOTAL | 16799 | 30 | 49 | 17 | 3 |
| MECHANICAL ABILITY | MEN | 10375 | 6 | 37 | 44 | 13 |
| | WOMEN | 6413 | 44 | 45 | 9 | 1 |
| | TOTAL | 16788 | 21 | 40 | 31 | 8 |
| PHYSICAL ENERGY | MEN | 10372 | 5 | 42 | 40 | 13 |
| | WOMEN | 6425 | 7 | 58 | 29 | 6 |
| | TOTAL | 16797 | 6 | 48 | 36 | 10 |
| SCIENTIFIC ABILITY | MEN | 10368 | 37 | 49 | 12 | 2 |
| | WOMEN | 6413 | 43 | 48 | 8 | 1 |
| | TOTAL | 16781 | 39 | 49 | 10 | 2 |
| SOCIAL SELF-CONFIDENCE | MEN | 10368 | 20 | 56 | 20 | 4 |
| | WOMEN | 6422 | 13 | 57 | 24 | 6 |
| | TOTAL | 16790 | 17 | 56 | 22 | 5 |
| WORK MOTIVATION | MEN | 10328 | 2 | 37 | 49 | 12 |
| | WOMEN | 6388 | 1 | 34 | 51 | 14 |
| | TOTAL | 16716 | 1 | 36 | 50 | 13 |

*APPENDIX B*

**NATIONAL NORMS**

**TABLE B.6–MEANS AND STANDARD DEVIATIONS FOR CPP TESTS BY EDUCATIONAL PROGRAM**

| PROGRAM | | MECH. SKILLS | NONVERB. REAS. | CLER. SKILLS | NUM. COMP. | MATH. REAS. | SPACE REL. | READING SKILLS |
|---|---|---|---|---|---|---|---|---|
| ALL STUDENTS | MEAN | 50.1 | 50.0 | 50.1 | 50.1 | 49.9 | 50.0 | 50.2 |
| | S.D. | 10.0 | 10.0 | 10.5 | 10.1 | 10.4 | 10.3 | 9.9 |
| | N-CT | 16841 | 16841 | 16841 | 16841 | 16841 | 16841 | 16841 |
| AGRIC., FORESTRY, AND MARITIME FLDS | MEAN | 52.8 | 49.2 | 48.5 | 48.5 | 50.1 | 51.1 | 49.7 |
| | S.D. | 9.2 | 9.5 | 10.0 | 9.6 | 10.1 | 10.2 | 9.9 |
| | N-CT | 1125 | 1125 | 1125 | 1125 | 1125 | 1125 | 1125 |
| PERSUASION AND MARKETING FLDS | MEAN | 49.0 | 49.0 | 50.0 | 49.4 | 49.8 | 48.9 | 50.0 |
| | S.D. | 9.6 | 9.5 | 10.4 | 9.4 | 9.8 | 9.8 | 9.8 |
| | N-CT | 573 | 573 | 573 | 573 | 573 | 573 | 573 |
| HEALTH FIELDS | MEAN | 45.9 | 50.0 | 51.1 | 50.0 | 48.7 | 47.6 | 51.7 |
| | S.D. | 8.3 | 10.3 | 10.7 | 9.8 | 10.1 | 9.4 | 9.6 |
| | N-CT | 2955 | 2955 | 2955 | 2955 | 2955 | 2955 | 2955 |
| HOME ECONOMICS | MEAN | 46.1 | 50.4 | 52.4 | 49.2 | 47.7 | 49.2 | 49.7 |
| | S.D. | 8.6 | 11.8 | 12.0 | 10.8 | 10.0 | 9.6 | 9.8 |
| | N-CT | 74 | 74 | 74 | 74 | 74 | 74 | 74 |
| BUSINESS AND OFFICE FIELDS | MEAN | 47.2 | 50.5 | 52.5 | 52.7 | 50.2 | 49.0 | 50.8 |
| | S.D. | 9.2 | 9.5 | 10.1 | 9.7 | 10.4 | 9.7 | 9.5 |
| | N-CT | 3471 | 3471 | 3471 | 3471 | 3471 | 3471 | 3471 |
| SCI., ENGINEERING, AND TECHNOLOGY | MEAN | 57.5 | 53.1 | 51.4 | 53.7 | 56.0 | 54.2 | 53.3 |
| | S.D. | 8.9 | 9.8 | 9.2 | 9.6 | 9.2 | 9.7 | 9.2 |
| | N-CT | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| TRADE AND INDUSTRIAL FIELDS | MEAN | 53.4 | 49.1 | 48.7 | 48.6 | 49.5 | 51.7 | 48.3 |
| | S.D. | 9.5 | 9.7 | 10.3 | 9.9 | 10.2 | 10.7 | 9.8 |
| | N-CT | 4372 | 4372 | 4372 | 4372 | 4372 | 4372 | 4372 |
| SOCIAL SCI. AND PUBLIC SERVICE | MEAN | 48.8 | 50.8 | 50.8 | 49.0 | 49.4 | 49.9 | 51.3 |
| | S.D. | 9.3 | 10.0 | 10.2 | 9.8 | 9.8 | 10.1 | 9.8 |
| | N-CT | 1163 | 1163 | 1163 | 1163 | 1163 | 1163 | 1163 |
| ARTS AND HUMANITIES | MEAN | 51.1 | 51.4 | 48.5 | 49.2 | 50.2 | 50.4 | 50.0 |
| | S.D. | 9.0 | 11.0 | 10.3 | 10.8 | 10.4 | 10.9 | 9.9 |
| | N-CT | 192 | 192 | 192 | 192 | 192 | 192 | 192 |
| UNDECIDED | MEAN | 49.6 | 50.4 | 47.8 | 49.0 | 49.1 | 49.0 | 49.2 |
| | S.D. | 9.7 | 10.6 | 10.0 | 9.4 | 10.7 | 10.4 | 10.3 |
| | N-CT | 572 | 572 | 572 | 572 | 572 | 572 | 572 |

*APPENDIX B*

## NATIONAL NORMS

### TABLE B.7–MEANS AND STANDARD DEVIATIONS FOR CPP TESTS BY VOCATIONAL CHOICE

| VOCATIONAL CHOICE | | MECH. SKILLS | NONVERB. REAS. | CLER. SKILLS | NUM. COMP. | MATH. REAS. | SPACE REL. | READING SKILLS |
|---|---|---|---|---|---|---|---|---|
| ALL STUDENTS | MEAN | 50.1 | 50.0 | 50.1 | 50.1 | 49.9 | 50.0 | 50.2 |
| | S.D. | 10.0 | 10.0 | 10.5 | 10.1 | 10.4 | 10.3 | 9.9 |
| | N-CT | 16841 | 16841 | 16841 | 16841 | 16841 | 16841 | 16841 |
| AGRIC., FORESTRY, AND MARITIME FLDS | MEAN | 54.7 | 50.4 | 49.5 | 49.8 | 52.0 | 52.6 | 52.0 |
| | S.D. | 8.6 | 9.6 | 9.6 | 9.4 | 9.7 | 9.9 | 9.5 |
| | N-CT | 895 | 895 | 895 | 895 | 895 | 895 | 895 |
| PERSUASION AND MARKETING FLDS | MEAN | 48.2 | 48.3 | 47.7 | 47.8 | 47.8 | 47.9 | 47.7 |
| | S.D. | 9.7 | 9.6 | 10.7 | 9.8 | 10.2 | 10.3 | 10.0 |
| | N-CT | 954 | 954 | 954 | 954 | 954 | 954 | 954 |
| HEALTH FIELDS | MEAN | 46.1 | 50.1 | 51.3 | 50.1 | 48.9 | 47.7 | 51.9 |
| | S.D. | 8.3 | 10.2 | 10.6 | 9.8 | 10.0 | 9.4 | 9.6 |
| | N-CT | 2895 | 2895 | 2895 | 2895 | 2895 | 2895 | 2895 |
| HOME ECONOMICS | MEAN | 43.3 | 48.6 | 50.4 | 47.5 | 45.3 | 46.5 | 46.9 |
| | S.D. | 8.1 | 10.8 | 13.3 | 10.7 | 10.5 | 10.0 | 10.1 |
| | N-CT | 106 | 106 | 106 | 106 | 106 | 106 | 106 |
| BUSINESS AND OFFICE FIELDS | MEAN | 47.2 | 50.4 | 52.5 | 52.8 | 50.2 | 49.1 | 50.7 |
| | S.D. | 9.1 | 9.6 | 10.1 | 9.7 | 10.2 | 9.7 | 9.4 |
| | N-CT | 3297 | 3297 | 3297 | 3297 | 3297 | 3297 | 3297 |
| SCI., ENGINEERING, AND TECHNOLOGY | MEAN | 57.1 | 52.7 | 50.9 | 53.0 | 55.4 | 54.0 | 52.6 |
| | S.D. | 8.9 | 9.8 | 9.5 | 9.8 | 9.6 | 9.7 | 9.3 |
| | N-CT | 1622 | 1622 | 1622 | 1622 | 1622 | 1622 | 1622 |
| TRADE AND INDUSTRIAL FIELDS | MEAN | 53.6 | 49.1 | 48.9 | 48.7 | 49.6 | 51.7 | 48.5 |
| | S.D. | 9.4 | 9.7 | 10.2 | 9.8 | 10.1 | 10.7 | 9.8 |
| | N-CT | 4042 | 4042 | 4042 | 4042 | 4042 | 4042 | 4042 |
| SOCIAL SCI. AND PUBLIC SERVICE | MEAN | 48.6 | 50.6 | 50.6 | 49.4 | 49.3 | 49.7 | 51.2 |
| | S.D. | 9.4 | 10.2 | 10.3 | 9.8 | 10.0 | 10.2 | 9.9 |
| | N-CT | 1235 | 1235 | 1235 | 1235 | 1235 | 1235 | 1235 |
| ARTS AND HUMANITIES | MEAN | 50.8 | 51.9 | 48.2 | 49.3 | 50.4 | 50.3 | 50.5 |
| | S.D. | 9.5 | 10.9 | 9.9 | 10.3 | 10.6 | 10.5 | 10.1 |
| | N-CT | 347 | 347 | 347 | 347 | 347 | 347 | 347 |
| UNDECIDED | MEAN | 49.4 | 49.7 | 49.2 | 49.1 | 48.7 | 49.2 | 49.4 |
| | S.D. | 9.9 | 10.2 | 9.7 | 9.4 | 11.3 | 10.5 | 9.9 |
| | N-CT | 411 | 411 | 411 | 411 | 411 | 411 | 411 |

*APPENDIX B*

## NATIONAL NORMS

### TABLE B.8—DISTRIBUTION OF GOALS AND JOB VALUES (IN PERCENTAGES)

HOW IMPORTANT WILL THE FOLLOWING GOALS AND JOB CHARACTERISTICS BE IN YOUR LIFE

| GOALS IN LIFE | SEX | N-CT | VERY UN-IMPORT. | UN-IMPORT. | IMPORT. | VERY IMPORT. |
|---|---|---|---|---|---|---|
| COMMUNITY SERVICE | MEN | 10348 | 4 | 25 | 57 | 13 |
| | WOMEN | 6415 | 2 | 11 | 63 | 24 |
| | TOTAL | 16763 | 3 | 20 | 60 | 18 |
| FAMILY-CENTERED | MEN | 10347 | 2 | 3 | 19 | 77 |
| | WOMEN | 6407 | 2 | 1 | 9 | 88 |
| | TOTAL | 16754 | 2 | 2 | 15 | 81 |
| FINANCIAL | MEN | 10355 | 2 | 8 | 50 | 40 |
| | WOMEN | 6409 | 2 | 15 | 60 | 23 |
| | TOTAL | 16764 | 2 | 11 | 54 | 34 |
| JOB-CENTERED | MEN | 10354 | 1 | 1 | 26 | 72 |
| | WOMEN | 6418 | 1 | 1 | 29 | 68 |
| | TOTAL | 16772 | 1 | 1 | 28 | 70 |
| PERSONAL ADJUSTMENT | MEN | 10332 | 1 | 1 | 32 | 66 |
| | WOMEN | 6406 | 1 | | 17 | 82 |
| | TOTAL | 16738 | 1 | 1 | 26 | 72 |
| JOB CHARACTERISTICS | | | | | | |
| CO-WORKERS | MEN | 10341 | 2 | 6 | 47 | 45 |
| | WOMEN | 6413 | 1 | 4 | 41 | 53 |
| | TOTAL | 16754 | 2 | 5 | 45 | 48 |
| INDEPENDENCE | MEN | 10346 | 2 | 28 | 47 | 22 |
| | WOMEN | 6400 | 4 | 40 | 43 | 13 |
| | TOTAL | 16746 | 3 | 33 | 46 | 18 |
| INTEREST | MEN | 10351 | 1 | 2 | 24 | 72 |
| | WOMEN | 6409 | 2 | 1 | 21 | 76 |
| | TOTAL | 16760 | 1 | 1 | 23 | 74 |
| JOB SECURITY | MEN | 10359 | 6 | 24 | 46 | 24 |
| | WOMEN | 6412 | 8 | 32 | 42 | 17 |
| | TOTAL | 16771 | 7 | 27 | 45 | 21 |
| PAY | MEN | 10341 | 7 | 38 | 42 | 14 |
| | WOMEN | 6394 | 13 | 48 | 32 | 8 |
| | TOTAL | 16735 | 9 | 42 | 38 | 11 |
| RESPONSIBILITY | MEN | 10352 | 2 | 14 | 54 | 30 |
| | WOMEN | 6414 | 2 | 19 | 51 | 28 |
| | TOTAL | 16766 | 2 | 16 | 53 | 29 |

*APPENDIX B*

## NATIONAL NORMS

### TABLE B.9–DISTRIBUTION OF WORKING CONDITION PREFERENCES (IN PERCENTAGES)

DO YOU PREFER WORKING CONDITION A OR B AND HOW STRONG IS YOUR PREFERENCE

| | SEX | N-CT | STRONGLY PREFER A | PREFER A | PREFER B | STRONGLY PREFER B |
|---|---|---|---|---|---|---|
| (A) INDOOR WORK | MEN | 10106 | 14 | 35 | 30 | 20 |
| OR (B) OUTDOOR WORK | WOMEN | 6328 | 23 | 53 | 18 | 7 |
| | TOTAL | 16434 | 17 | 42 | 25 | 15 |
| (A) WORK WITH PEOPLE | MEN | 10126 | 28 | 48 | 17 | 6 |
| OR (B) WORK ALONE | WOMEN | 6324 | 49 | 40 | 8 | 2 |
| | TOTAL | 16450 | 36 | 45 | 14 | 4 |
| (A) VARIETY OF TASKS | MEN | 10104 | 39 | 48 | 9 | 4 |
| OR (B) SAME TASK | WOMEN | 6316 | 45 | 45 | 7 | 2 |
| | TOTAL | 16420 | 41 | 47 | 9 | 3 |
| (A) PHYSICAL LABOR | MEN | 10106 | 38 | 41 | 15 | 6 |
| OR (B) DESK WORK | WOMEN | 6305 | 30 | 38 | 23 | 8 |
| | TOTAL | 16411 | 35 | 40 | 18 | 7 |

### TABLE B.10–DISTRIBUTION OF WORK EXPERIENCES (IN PERCENTAGES)

| | SEX | N-CT | NO EXP. | ONLY PART-TIME | LESS THAN 1 YEAR | 1-5 YEARS | MORE THAN 5 YEARS |
|---|---|---|---|---|---|---|---|
| WORK EXPERIENCE | MEN | 10355 | 3 | 25 | 29 | 27 | 15 |
| PRIOR TO PRESENT | WOMEN | 6418 | 14 | 36 | 23 | 19 | 8 |
| SCHOOLING | TOTAL | 16773 | 7 | 29 | 27 | 24 | 13 |

## APPENDIX C

## VOCATIONAL-TECHNICAL PROGRAM CLUSTER NORMS

Clusters

Agriculture, Forestry, and Maritime

Persuasion and Marketing

Health

Business and Office

Science, Engineering, and Technology

Trade and Industrial

Social Science and Public Service

The following tables are provided for each of the above clusters:

Table C.1 Distribution of Test Scores (Ability Measures)

Table C.2 Distribution of Vocational Interests

Table C.3 Distribution of Special Competencies

Table C.4 Distribution of High School Grades

Table C.5 Distribution of Self-Estimates of Skills

*APPENDIX C*
**AGRICULTURE, FORESTRY, AND MARITIME CLUSTER**

**TABLE C.1–DISTRIBUTION OF TEST SCORES (IN PERCENTILES)**

| | MECHANICAL SKILLS | | | NUMERICAL REASONING | | | CLERICAL SKILLS | | | NUMERICAL COMPUTATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 71-75 |
| 66-70 | 95 | | 95 | 98 | | 97 | 96 | | 95 | 98 | | 98 | 66-70 |
| 61-65 | 87 | | 87 | 92 | | 92 | 92 | | 92 | 93 | | 93 | 61-65 |
| 56-60 | 69 | | 71 | 83 | | 82 | 85 | | 85 | 82 | | 82 | 56-60 |
| 51-55 | 45 | | 48 | 66 | | 66 | 69 | | 70 | 65 | | 65 | 51-55 |
| 46-50 | 26 | | 29 | 44 | | 44 | 50 | | 51 | 47 | | 47 | 46-50 |
| 41-45 | 13 | | 16 | 26 | | 26 | 30 | | 31 | 28 | | 28 | 41-45 |
| 36-40 | 5 | | 7 | 12 | | 12 | 14 | | 14 | 14 | | 15 | 36-40 |
| 31-35 | 2 | | 3 | 5 | | 5 | 5 | | 6 | 7 | | 7 | 31-35 |
| 26-30 | 1 | | 1 | 1 | | 1 | 1 | | 2 | 2 | | 2 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | | 1048 | | | 1048 | | | 1048 | | | 1048 | | MEN |
| WOMEN | | 77 | | | 77 | | | 77 | | | 77 | | WOMEN |
| TOTAL | | 1125 | | | 1125 | | | 1125 | | | 1125 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | M | W | T | |
| MEAN | 53.4 | | 52.8 | 49.1 | | 49.2 | 48.6 | | 48.5 | 48.6 | | 48.5 | MEAN |
| S.D. | 8.9 | | 9.2 | 9.4 | | 9.5 | 9.9 | | 10.0 | 9.5 | | 9.6 | S.D. |

| | MATHEMATICAL REASONING | | | SPACE RELATIONS | | | READING SKILLS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 71-75 |
| 66-70 | 96 | | 96 | 95 | | 96 | 96 | | 96 | 66-70 |
| 61-65 | 88 | | 89 | 88 | | 89 | 90 | | 89 | 61-65 |
| 56-60 | 77 | | 78 | 74 | | 75 | 77 | | 77 | 56-60 |
| 51-55 | 58 | | 59 | 53 | | 55 | 62 | | 62 | 51-55 |
| 46-50 | 35 | | 37 | 33 | | 35 | 44 | | 44 | 46-50 |
| 41-45 | 21 | | 23 | 18 | | 20 | 25 | | 26 | 41-45 |
| 36-40 | 13 | | 14 | 10 | | 11 | 11 | | 12 | 36-40 |
| 31-35 | 6 | | 6 | 6 | | 7 | 4 | | 5 | 31-35 |
| 26-30 | 3 | | 3 | 3 | | 3 | 1 | | 1 | 26-30 |
| 20-25 | 1 | | 2 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | | 1048 | | | 1048 | | | 1048 | | MEN |
| WOMEN | | 77 | | | 77 | | | 77 | | WOMEN |
| TOTAL | | 1125 | | | 1125 | | | 1125 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 50.6 | | 50.1 | 51.5 | | 51.1 | 49.8 | | 49.7 | MEAN |
| S.D. | 10.0 | | 10.1 | 10.0 | | 10.2 | 9.8 | | 9.9 | S.D. |

*APPENDIX C*
**AGRICULTURE, FORESTRY, AND MARITIME CLUSTER**

**TABLE C.2–DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)**

| | SCIENTIFIC | | | HEALTH | | | ARTISTIC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 71-75 |
| 66-70 | 97 | | 97 | 99 | | 99 | 98 | | 98 | 66-70 |
| 61-65 | 93 | | 93 | 98 | | 97 | 96 | | 95 | 61-65 |
| 56-60 | 83 | | 83 | 93 | | 91 | 88 | | 86 | 56-60 |
| 51-55 | 64 | | 65 | 82 | | 79 | 76 | | 73 | 51-55 |
| 46-50 | 44 | | 44 | 61 | | 59 | 58 | | 56 | 46-50 |
| 41-45 | 25 | | 25 | 38 | | 36 | 36 | | 34 | 41-45 |
| 36-40 | 11 | | 12 | 19 | | 18 | 19 | | 18 | 36-40 |
| 31-35 | 5 | | 5 | 7 | | 7 | 9 | | 9 | 31-35 |
| 26-30 | 2 | | 2 | 3 | | 3 | 4 | | 3 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | 1043 | | | 1041 | | | 1043 | | | MEN |
| WOMEN | 76 | | | 76 | | | 76 | | | WOMEN |
| TOTAL | 1119 | | | 1117 | | | 1119 | | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 49.7 | | 49.6 | 45.6 | | 46.0 | 46.3 | | 47.0 | MEAN |
| S.D. | 9.4 | | 9.5 | 8.4 | | 8.8 | 9.5 | | 9.8 | S.D. |

| | SOCIAL SERV. | | | BUS. CONTACT | | | BUS. MANAG. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 71-75 |
| 66-70 | 99 | | 98 | 98 | | 97 | 95 | | 95 | 66-70 |
| 61-65 | 97 | | 96 | 94 | | 93 | 89 | | 89 | 61-65 |
| 56-60 | 90 | | 88 | 87 | | 85 | 77 | | 78 | 56-60 |
| 51-55 | 79 | | 77 | 72 | | 71 | 60 | | 61 | 51-55 |
| 46-50 | 61 | | 59 | 54 | | 53 | 40 | | 41 | 46-50 |
| 41-45 | 39 | | 37 | 35 | | 35 | 22 | | 22 | 41-45 |
| 36-40 | 20 | | 18 | 17 | | 17 | 9 | | 9 | 36-40 |
| 31-35 | 8 | | 7 | 6 | | 6 | 3 | | 3 | 31-35 |
| 26-30 | 2 | | 2 | 2 | | 2 | 1 | | 1 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | 1043 | | | 1043 | | | 1043 | | | MEN |
| WOMEN | 76 | | | 76 | | | 76 | | | WOMEN |
| TOTAL | 1119 | | | 1119 | | | 1119 | | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 45.8 | | 46.4 | 47.1 | | 47.4 | 50.9 | | 50.8 | MEAN |
| S.D. | 9.0 | | 9.3 | 9.7 | | 10.0 | 9.6 | | 9.6 | S.D. |

*APPENDIX C*
**AGRICULTURE, FORESTRY, AND MARITIME CLUSTER**

**TABLE C.2–DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)---CONTINUED**

| | BUS. DETAIL | | | HOUSEHOLD | | | CARPENTRY | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 99 | 99 | | 99 | 97 | | 98 | 71-75 |
| 66-70 | 99 | | 98 | 99 | | 99 | 92 | | 93 | 66-70 |
| 61-65 | 96 | | 95 | 98 | | 97 | 81 | | 82 | 61-65 |
| 56-60 | 89 | | 88 | 93 | | 90 | 64 | | 65 | 56-60 |
| 51-55 | 76 | | 74 | 81 | | 77 | 42 | | 44 | 51-55 |
| 46-50 | 55 | | 54 | 60 | | 57 | 24 | | 25 | 46-50 |
| 41-45 | 35 | | 34 | 37 | | 35 | 11 | | 12 | 41-45 |
| 36-40 | 17 | | 17 | 20 | | 18 | 3 | | 4 | 36-40 |
| 31-35 | 6 | | 6 | 8 | | 8 | 1 | | 1 | 31-35 |
| 26-30 | 2 | | 2 | 3 | | 3 | 1 | | 1 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | | 1042 | | | 1042 | | | 1043 | | MEN |
| WOMEN | | 76 | | | 76 | | | 76 | | WOMEN |
| TOTAL | | 1118 | | | 1118 | | | 1119 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 46.8 | | 47.1 | 45.7 | | 46.4 | 54.6 | | 54.2 | MEAN |
| S.D. | 8.7 | | 9.1 | 8.5 | | 8.9 | 8.9 | | 9.0 | S.D. |

| | AGRICULTURE | | | MECHANICAL | | | ELECTRICAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 98 | | 98 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 93 | | 93 | 98 | | 98 | 99 | | 99 | 71-75 |
| 66-70 | 79 | | 80 | 92 | | 92 | 98 | | 99 | 66-70 |
| 61-65 | 58 | | 59 | 80 | | 82 | 93 | | 94 | 61-65 |
| 56-60 | 39 | | 40 | 58 | | 61 | 81 | | 82 | 56-60 |
| 51-55 | 24 | | 26 | 30 | | 33 | 56 | | 58 | 51-55 |
| 46-50 | 12 | | 13 | 10 | | 14 | 28 | | 30 | 46-50 |
| 41-45 | 5 | | 6 | 3 | | 5 | 11 | | 13 | 41-45 |
| 36-40 | 2 | | 2 | 1 | | 2 | 3 | | 4 | 36-40 |
| 31-35 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 31-35 |
| 26-30 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | | 1042 | | | 1042 | | | 1041 | | MEN |
| WOMEN | | 76 | | | 77 | | | 76 | | WOMEN |
| TOTAL | | 1118 | | | 1119 | | | 1117 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 60.1 | | 59.7 | 57.0 | | 56.1 | 51.7 | | 51.3 | MEAN |
| S.D. | 9.3 | | 9.6 | 7.2 | | 7.9 | 7.0 | | 7.2 | S.D. |

*APPENDIX C*
## AGRICULTURE, FORESTRY, AND MARITIME CLUSTER

### TABLE C.3–DISTRIBUTION OF SPECIAL COMPETENCIES

| | SKILLED TRADES | | | HOME ECONOMICS | | | SCIENTIFIC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 5 | | 29 | 103 | | 104 | 59 | | 67 | 0 |
| 1 | 10 | | 15 | 145 | | 146 | 62 | | 72 | 1 |
| 2 | 11 | | 20 | 157 | | 158 | 146 | | 157 | 2 |
| 3 | 28 | | 36 | 133 | | 135 | 164 | | 177 | 3 |
| 4 | 33 | | 40 | 105 | | 110 | 147 | | 153 | 4 |
| 5 | 55 | | 59 | 78 | | 80 | 137 | | 148 | 5 |
| 6 | 67 | | 67 | 70 | | 75 | 105 | | 109 | 6 |
| 7-8 | 112 | | 115 | 97 | | 107 | 103 | | 106 | 7-8 |
| 9-10 | 153 | | 156 | 47 | | 65 | 39 | | 43 | 9-10 |
| 11-12 | 164 | | 167 | 24 | | 36 | | | | 11-12 |
| 13-14 | 139 | | 140 | 8 | | 18 | | | | 13-14 |
| OVER 14 | 235 | | 235 | | | | | | | OVER 14 |
| N-CT | 1012 | 67 | 1079 | 967 | 67 | 1034 | 962 | 70 | 1032 | N-CT |
| MEAN | 10,8 | | 10,3 | 3,7 | | 4,1 | 4,0 | | 4,0 | MEAN |
| S,D, | 4,6 | | 4,9 | 3,0 | | 3,2 | 2,3 | | 2,3 | S,D, |

| | SPORTS | | | ARTISTIC | | | COMMUNITY SERV, | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 14 | | 20 | 159 | | 160 | 384 | | 394 | 0 |
| 1 | 31 | | 36 | 151 | | 156 | 183 | | 194 | 1 |
| 2 | 84 | | 103 | 164 | | 174 | 148 | | 162 | 2 |
| 3 | 93 | | 100 | 152 | | 154 | 116 | | 127 | 3 |
| 4 | 116 | | 128 | 114 | | 121 | 41 | | 47 | 4 |
| 5 | 142 | | 151 | 73 | | 84 | 37 | | 43 | 5 |
| 6 | 134 | | 137 | 56 | | 60 | 23 | | 27 | 6 |
| 7-8 | 211 | | 216 | 60 | | 73 | 22 | | 24 | 7-8 |
| 9-10 | 100 | | 100 | 15 | | 26 | 11 | | 11 | 9-10 |
| 11-12 | 35 | | 36 | 17 | | 20 | | | | 11-12 |
| 13-14 | | | | 4 | | 4 | | | | 13-14 |
| OVER 14 | | | | 1 | | 2 | | | | OVER 14 |
| N-CT | 960 | 67 | 1027 | 966 | 68 | 1034 | 965 | 64 | 1029 | N-CT |
| MEAN | 5,6 | | 5,5 | 3,0 | | 3,2 | 1,6 | | 1,7 | MEAN |
| S,D, | 2,6 | | 2,7 | 2,6 | | 2,8 | 2,0 | | 2,0 | S,D, |

| | BUSINESS | | | LEADERSHIP | | | CLERICAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 17 | | 24 | 119 | | 125 | 129 | | 133 | 0 |
| 1 | 64 | | 69 | 140 | | 145 | 165 | | 177 | 1 |
| 2 | 119 | | 129 | 147 | | 156 | 171 | | 178 | 2 |
| 3 | 154 | | 169 | 126 | | 134 | 134 | | 142 | 3 |
| 4 | 152 | | 164 | 121 | | 129 | 125 | | 132 | 4 |
| 5 | 135 | | 141 | 77 | | 83 | 61 | | 66 | 5 |
| 6 | 107 | | 109 | 61 | | 68 | 44 | | 47 | 6 |
| 7-8 | 118 | | 127 | 72 | | 81 | 54 | | 64 | 7-8 |
| 9-10 | 46 | | 46 | 36 | | 42 | 31 | | 39 | 9-10 |
| 11-12 | 16 | | 17 | 22 | | 24 | 13 | | 14 | 11-12 |
| 13-14 | 4 | | 4 | | | | 5 | | 6 | 13-14 |
| OVER 14 | 12 | | 12 | | | | 5 | | 6 | OVER 14 |
| N-CT | 946 | 67 | 1011 | 921 | 66 | 987 | 937 | 67 | 1004 | N-CT |
| MEAN | 4,7 | | 4,6 | 3,4 | | 3,5 | 3,2 | | 3,3 | MEAN |
| S,D, | 2,8 | | 2,7 | 2,7 | | 2,8 | 2,8 | | 2,9 | S,D, |

*APPENDIX C*
**AGRICULTURE, FORESTRY, AND MARITIME CLUSTER**

**TABLE C.4—DISTRIBUTION OF HIGH SCHOOL GRADES**

MEN STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 36 | 3 | 53 | 5 | 73 | 7 | 50 | 5 | 69 | 7 | 280 | 27 |
| B | 280 | 27 | 224 | 21 | 360 | 34 | 272 | 26 | 232 | 22 | 317 | 30 |
| C | 557 | 53 | 463 | 44 | 442 | 42 | 464 | 44 | 269 | 26 | 129 | 12 |
| D | 123 | 12 | 219 | 21 | 102 | 10 | 136 | 13 | 51 | 5 | 19 | 2 |
| F | 9 | 1 | 32 | 3 | 3 | | 3 | | 4 | | 1 | |
| NOT TAKEN | 43 | 4 | 57 | 5 | 68 | 6 | 123 | 12 | 423 | 40 | 302 | 29 |
| MEAN | 2,21 | | 2,05 | | 2,41 | | 2,25 | | 2,50 | | 3,15 | |
| S.D. | ,732 | | ,888 | | ,785 | | ,780 | | ,820 | | ,800 | |
| NO. STUDENTS | 1,048 | | 1,048 | | 1,048 | | 1,048 | | 1,048 | | 1,048 | |

WOMEN STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | | | | | | | | | | | | |
| B | | | | | | | | | | | | |
| C | | | | | | | | | | | | |
| D | | | | | | | | | | | | |
| F | | | | | | | | | | | | |
| NOT TAKEN | | | | | | | | | | | | |
| MEAN | | | | | | | | | | | | |
| S.D. | | | | | | | | | | | | |
| NO. STUDENTS | 77 | | 77 | | 77 | | 77 | | 77 | | 77 | |

TOTAL STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 50 | 4 | 59 | 5 | 88 | 8 | 61 | 5 | 81 | 7 | 300 | 27 |
| B | 317 | 28 | 244 | 22 | 393 | 35 | 301 | 27 | 252 | 22 | 337 | 30 |
| C | 582 | 52 | 493 | 44 | 463 | 41 | 492 | 44 | 285 | 25 | 135 | 12 |
| D | 123 | 11 | 236 | 21 | 108 | 10 | 138 | 12 | 54 | 5 | 19 | 2 |
| F | 9 | 1 | 33 | 3 | 3 | | 3 | | 4 | | 1 | |
| NOT TAKEN | 44 | 4 | 60 | 5 | 70 | 6 | 130 | 12 | 449 | 40 | 333 | 30 |
| MEAN | 2,26 | | 2,06 | | 2,43 | | 2,28 | | 2,52 | | 3,16 | |
| S.D. | ,748 | | ,891 | | ,796 | | ,787 | | ,827 | | ,795 | |
| NO. STUDENTS | 1,125 | | 1,125 | | 1,125 | | 1,125 | | 1,125 | | 1,125 | |

*APPENDIX C*
**AGRICULTURE, FORESTRY, AND MARITIME CLUSTER**

**TABLE C.5—DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)**

| | | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
| ACADEMIC MOTIVATION | MEN | 1046 | 6 | 63 | 28 | 3 |
| | WOMEN | 75 | | | | |
| | TOTAL | 1121 | 6 | 62 | 28 | 4 |
| ADAPTABILITY | MEN | 1048 | 5 | 55 | 34 | 6 |
| | WOMEN | 77 | | | | |
| | TOTAL | 1125 | 5 | 55 | 33 | 7 |
| ARTISTIC ABILITY | MEN | 1043 | 46 | 36 | 15 | 3 |
| | WOMEN | 75 | | | | |
| | TOTAL | 1118 | 45 | 36 | 16 | 3 |
| CLERICAL ABILITY | MEN | 1039 | 28 | 56 | 14 | 2 |
| | WOMEN | 77 | | | | |
| | TOTAL | 1116 | 27 | 56 | 15 | 2 |
| COMMON SENSE | MEN | 1045 | 2 | 44 | 44 | 10 |
| | WOMEN | 77 | | | | |
| | TOTAL | 1122 | 2 | 44 | 44 | 10 |
| COPING ABILITY | MEN | 1045 | 7 | 62 | 26 | 4 |
| | WOMEN | 76 | | | | |
| | TOTAL | 1121 | 7 | 63 | 26 | 4 |
| ENGLISH ABILITY | MEN | 1043 | 29 | 58 | 12 | 2 |
| | WOMEN | 77 | | | | |
| | TOTAL | 1120 | 28 | 58 | 13 | 2 |
| GETTING ALONG | MEN | 1047 | 2 | 44 | 43 | 11 |
| | WOMEN | 76 | | | | |
| | TOTAL | 1123 | 2 | 44 | 43 | 11 |

TABLE C.5–DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)––CONTINUED

| | | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
| LEARNING ABILITY | MEN | 1043 | 10 | 63 | 24 | 2 |
| | WOMEN | 77 | | | | |
| | TOTAL | 1120 | 10 | 64 | 24 | 3 |
| LIKING SCHOOL | MEN | 1044 | 13 | 60 | 24 | 3 |
| | WOMEN | 77 | | | | |
| | TOTAL | 1121 | 12 | 58 | 25 | 4 |
| MATHEMATICAL ABILITY | MEN | 1046 | 31 | 49 | 18 | 2 |
| | WOMEN | 77 | | | | |
| | TOTAL | 1123 | 31 | 49 | 17 | 2 |
| MECHANICAL ABILITY | MEN | 1045 | 5 | 39 | 44 | 11 |
| | WOMEN | 77 | | | | |
| | TOTAL | 1122 | 7 | 40 | 42 | 10 |
| PHYSICAL ENERGY | MEN | 1047 | 4 | 35 | 45 | 16 |
| | WOMEN | 77 | | | | |
| | TOTAL | 1124 | 4 | 36 | 44 | 15 |
| SCIENTIFIC ABILITY | MEN | 1046 | 38 | 50 | 11 | 1 |
| | WOMEN | 77 | | | | |
| | TOTAL | 1123 | 38 | 50 | 11 | 1 |
| SOCIAL SELF-CONFIDENCE | MEN | 1045 | 21 | 55 | 20 | 4 |
| | WOMEN | 77 | | | | |
| | TOTAL | 1122 | 21 | 55 | 20 | 4 |
| WORK MOTIVATION | MEN | 1046 | 1 | 37 | 50 | 12 |
| | WOMEN | 77 | | | | |
| | TOTAL | 1123 | 1 | 36 | 51 | 12 |

*APPENDIX C*

## PERSUASION AND MARKETING CLUSTER

**TABLE C.1–DISTRIBUTION OF TEST SCORES (IN PERCENTILES)**

| | MECHANICAL SKILLS | | | NONVERBAL REASONING | | | CLERICAL SKILLS | | | NUMERICAL COMPUTATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 71-75 |
| 66-70 | 96 | | 97 | 98 | | 98 | 95 | | 95 | 97 | | 97 | 66-70 |
| 61-65 | 89 | | 92 | 92 | | 92 | 90 | | 88 | 91 | | 91 | 61-65 |
| 56-60 | 75 | | 81 | 84 | | 82 | 81 | | 79 | 82 | | 81 | 56-60 |
| 51-55 | 56 | | 65 | 68 | | 65 | 64 | | 62 | 66 | | 64 | 51-55 |
| 46-50 | 38 | | 49 | 48 | | 45 | 45 | | 43 | 46 | | 44 | 46-50 |
| 41-45 | 21 | | 29 | 28 | | 26 | 27 | | 26 | 26 | | 25 | 41-45 |
| 36-40 | 8 | | 13 | 12 | | 11 | 13 | | 14 | 12 | | 12 | 36-40 |
| 31-35 | 3 | | 5 | 4 | | 5 | 6 | | 6 | 6 | | 6 | 31-35 |
| 26-30 | 1 | | 2 | 1 | | 2 | 1 | | 2 | 1 | | 1 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | | 402 | | | 402 | | | 402 | | | 402 | | MEN |
| WOMEN | | 171 | | | 171 | | | 171 | | | 171 | | WOMEN |
| TOTAL | | 573 | | | 573 | | | 573 | | | 573 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | M | W | T | |
| MEAN | 51.3 | | 49.0 | 48.5 | | 49.0 | 49.5 | | 50.0 | 49.1 | | 49.4 | MEAN |
| S.D. | 9.2 | | 9.6 | 9.1 | | 9.5 | 10.2 | | 10.4 | 9.3 | | 9.4 | S.D. |

| | MATHEMATICAL REASONING | | | SPACE RELATIONS | | | READING SKILLS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 71-75 |
| 66-70 | 96 | | 96 | 97 | | 98 | 97 | | 97 | 66-70 |
| 61-65 | 88 | | 90 | 91 | | 93 | 91 | | 90 | 61-65 |
| 56-60 | 78 | | 81 | 80 | | 83 | 79 | | 78 | 56-60 |
| 51-55 | 57 | | 60 | 62 | | 65 | 61 | | 60 | 51-55 |
| 46-50 | 33 | | 36 | 43 | | 45 | 41 | | 41 | 46-50 |
| 41-45 | 20 | | 22 | 25 | | 27 | 24 | | 24 | 41-45 |
| 36-40 | 12 | | 14 | 13 | | 13 | 12 | | 12 | 36-40 |
| 31-35 | 5 | | 6 | 8 | | 7 | 5 | | 5 | 31-35 |
| 26-30 | 2 | | 3 | 4 | | 3 | 1 | | 1 | 26-30 |
| 20-25 | 1 | | 2 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | | 402 | | | 402 | | | 402 | | MEN |
| WOMEN | | 171 | | | 171 | | | 171 | | WOMEN |
| TOTAL | | 573 | | | 573 | | | 573 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 50.7 | | 49.8 | 49.4 | | 48.9 | 49.8 | | 50.0 | MEAN |
| S.D. | 9.6 | | 9.8 | 10.3 | | 9.8 | 9.7 | | 9.8 | S.D. |

*APPENDIX C*

## PERSUASION AND MARKETING CLUSTER

### TABLE C.2—DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)

| | SCIENTIFIC | | | HEALTH | | | ARTISTIC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 71-75 |
| 66-70 | 98 | | 99 | 99 | | 99 | 98 | | 96 | 66-70 |
| 61-65 | 96 | | 96 | 98 | | 98 | 92 | | 89 | 61-65 |
| 56-60 | 86 | | 88 | 93 | | 91 | 81 | | 76 | 56-60 |
| 51-55 | 68 | | 73 | 80 | | 75 | 63 | | 58 | 51-55 |
| 46-50 | 45 | | 54 | 55 | | 52 | 44 | | 40 | 46-50 |
| 41-45 | 23 | | 33 | 31 | | 29 | 24 | | 22 | 41-45 |
| 36-40 | 11 | | 18 | 15 | | 14 | 10 | | 9 | 36-40 |
| 31-35 | 5 | | 9 | 6 | | 5 | 4 | | 4 | 31-35 |
| 26-30 | 2 | | 4 | 2 | | 2 | 1 | | 1 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | | 401 | | | 401 | | | 401 | | MEN |
| WOMEN | | 171 | | | 171 | | | 171 | | WOMEN |
| TOTAL | | 572 | | | 572 | | | 572 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 49.3 | | 47.2 | 46.6 | | 47.3 | 49.7 | | 50.8 | MEAN |
| S.D. | 8.7 | | 9.6 | 7.9 | | 8.2 | 9.0 | | 9.5 | S.D. |

| | SOCIAL SERV. | | | BUS. CONTACT | | | BUS. MANAG. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 99 | 97 | | 97 | 95 | | 96 | 71-75 |
| 66-70 | 98 | | 96 | 90 | | 90 | 86 | | 89 | 66-70 |
| 61-65 | 94 | | 91 | 77 | | 76 | 68 | | 74 | 61-65 |
| 56-60 | 82 | | 77 | 57 | | 56 | 46 | | 54 | 56-60 |
| 51-55 | 66 | | 58 | 35 | | 34 | 28 | | 36 | 51-55 |
| 46-50 | 43 | | 37 | 19 | | 18 | 15 | | 22 | 46-50 |
| 41-45 | 21 | | 17 | 10 | | 9 | 6 | | 11 | 41-45 |
| 36-40 | 8 | | 7 | 4 | | 4 | 2 | | 4 | 36-40 |
| 31-35 | 3 | | 3 | 2 | | 1 | 1 | | 2 | 31-35 |
| 26-30 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | | 401 | | | 401 | | | 401 | | MEN |
| WOMEN | | 171 | | | 171 | | | 171 | | WOMEN |
| TOTAL | | 572 | | | 572 | | | 572 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 49.7 | | 51.2 | 56.0 | | 56.2 | 58.4 | | 56.4 | MEAN |
| S.D. | 8.8 | | 9.2 | 9.3 | | 9.1 | 9.2 | | 10.0 | S.D. |

**TABLE C.2–DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)––CONTINUED**

| | BUS. DETAIL | | | HOUSEHOLD | | | CARPENTRY | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 71-75 |
| 66-70 | 96 | | 96 | 99 | | 98 | 97 | | 98 | 66-70 |
| 61-65 | 89 | | 88 | 98 | | 93 | 89 | | 92 | 61-65 |
| 56-60 | 77 | | 75 | 92 | | 82 | 76 | | 81 | 56-60 |
| 51-55 | 55 | | 54 | 81 | | 68 | 57 | | 65 | 51-55 |
| 46-50 | 30 | | 31 | 59 | | 47 | 38 | | 46 | 46-50 |
| 41-45 | 15 | | 16 | 35 | | 27 | 22 | | 29 | 41-45 |
| 36-40 | 7 | | 8 | 20 | | 15 | 8 | | 14 | 36-40 |
| 31-35 | 3 | | 4 | 9 | | 7 | 3 | | 5 | 31-35 |
| 26-30 | 2 | | 2 | 3 | | 2 | 2 | | 2 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | | 401 | | | 401 | | | 401 | | MEN |
| WOMEN | | 171 | | | 171 | | | 171 | | WOMEN |
| TOTAL | | 572 | | | 572 | | | 572 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 51.8 | | 51.3 | 45.7 | | 48.7 | 50.8 | | 48.8 | MEAN |
| S.D. | 9.2 | | 9.4 | 8.7 | | 9.8 | 9.4 | | 9.6 | S.D. |

| | AGRICULTURE | | | MECHANICAL | | | ELECTRICAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 71-75 |
| 66-70 | 98 | | 98 | 97 | | 98 | 99 | | 99 | 66-70 |
| 61-65 | 93 | | 94 | 92 | | 95 | 93 | | 95 | 61-65 |
| 56-60 | 84 | | 85 | 78 | | 84 | 80 | | 86 | 56-60 |
| 51-55 | 68 | | 71 | 49 | | 61 | 55 | | 65 | 51-55 |
| 46-50 | 44 | | 49 | 23 | | 38 | 27 | | 40 | 46-50 |
| 41-45 | 22 | | 28 | 10 | | 23 | 12 | | 24 | 41-45 |
| 36-40 | 10 | | 14 | 4 | | 13 | 4 | | 13 | 36-40 |
| 31-35 | 4 | | 5 | 1 | | 7 | 2 | | 6 | 31-35 |
| 26-30 | 2 | | 2 | 1 | | 4 | 1 | | 2 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | | 401 | | | 401 | | | 401 | | MEN |
| WOMEN | | 171 | | | 171 | | | 171 | | WOMEN |
| TOTAL | | 572 | | | 572 | | | 572 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 49.6 | | 48.3 | 52.8 | | 49.2 | 51.8 | | 48.8 | MEAN |
| S.D. | 8.8 | | 9.2 | 7.4 | | 9.7 | 7.4 | | 9.1 | S.D. |

*APPENDIX C*

## PERSUASION AND MARKETING CLUSTER

### TABLE C.3–DISTRIBUTION OF SPECIAL COMPETENCIES

| SCORE | SKILLED TRADES M | W | T | HOME ECONOMICS M | W | T | SCIENTIFIC M | W | T | SCORE |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 9 | | 81 | 49 | | 52 | 29 | | 58 | 0 |
| 1 | 10 | | 28 | 45 | | 48 | 37 | | 63 | 1 |
| 2 | 15 | | 37 | 46 | | 53 | 69 | | 94 | 2 |
| 3 | 26 | | 39 | 67 | | 71 | 57 | | 82 | 3 |
| 4 | 17 | | 21 | 29 | | 38 | 60 | | 82 | 4 |
| 5 | 37 | | 41 | 36 | | 48 | 40 | | 51 | 5 |
| 6 | 25 | | 29 | 23 | | 33 | 31 | | 38 | 6 |
| 7-8 | 57 | | 60 | 51 | | 89 | 32 | | 39 | 7-8 |
| 9-10 | 53 | | 55 | 26 | | 58 | 14 | | 16 | 9-10 |
| 11-12 | 39 | | 48 | 8 | | 30 | | | | 11-12 |
| 13-14 | 32 | | 32 | 4 | | 27 | | | | 13-14 |
| OVER 14 | 66 | | 67 | | | | | | | OVER 14 |
| N-CT | 386 | 152 | 538 | 384 | 163 | 547 | 369 | 154 | 523 | N-CT |
| MEAN | 9.0 | | 7.0 | 4.0 | | 5.2 | 3.6 | | 3.3 | MEAN |
| S.D. | 5.1 | | 5.6 | 3.1 | | 3.7 | 2.3 | | 2.3 | S.D. |

| SCORE | SPORTS M | W | T | ARTISTIC M | W | T | COMMUNITY SERV. M | W | T | SCORE |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 9 | | 21 | 60 | | 65 | 162 | | 207 | 0 |
| 1 | 6 | | 32 | 51 | | 63 | 48 | | 66 | 1 |
| 2 | 28 | | 61 | 55 | | 67 | 60 | | 86 | 2 |
| 3 | 46 | | 77 | 55 | | 74 | 41 | | 66 | 3 |
| 4 | 45 | | 67 | 54 | | 75 | 25 | | 39 | 4 |
| 5 | 41 | | 53 | 19 | | 36 | 13 | | 25 | 5 |
| 6 | 60 | | 71 | 26 | | 51 | 9 | | 18 | 6 |
| 7-8 | 79 | | 80 | 32 | | 56 | 11 | | 23 | 7-8 |
| 9-10 | 51 | | 57 | 18 | | 35 | 5 | | 7 | 9-10 |
| 11-12 | 17 | | 20 | 5 | | 14 | | | | 11-12 |
| 13-14 | | | | 2 | | 4 | | | | 13-14 |
| OVER 14 | | | | 3 | | 3 | | | | OVER 14 |
| N-CT | 382 | 157 | 539 | 380 | 163 | 543 | 374 | 163 | 537 | N-CT |
| MEAN | 5.8 | | 5.0 | 3.5 | | 4.1 | 1.7 | | 2.0 | MEAN |
| S.D. | 2.7 | | 2.9 | 3.0 | | 3.1 | 2.1 | | 2.3 | S.D. |

| SCORE | BUSINESS M | W | T | LEADERSHIP M | W | T | CLERICAL M | W | T | SCORE |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 6 | | 9 | 35 | | 47 | 29 | | 32 | 0 |
| 1 | 18 | | 34 | 45 | | 59 | 42 | | 57 | 1 |
| 2 | 22 | | 48 | 35 | | 61 | 52 | | 76 | 2 |
| 3 | 46 | | 71 | 49 | | 71 | 50 | | 66 | 3 |
| 4 | 52 | | 80 | 56 | | 75 | 52 | | 80 | 4 |
| 5 | 66 | | 87 | 34 | | 52 | 37 | | 55 | 5 |
| 6 | 41 | | 57 | 34 | | 45 | 24 | | 40 | 6 |
| 7-8 | 71 | | 90 | 42 | | 63 | 51 | | 67 | 7-8 |
| 9-10 | 35 | | 41 | 22 | | 37 | 19 | | 32 | 9-10 |
| 11-12 | 15 | | 16 | 4 | | 10 | 8 | | 16 | 11-12 |
| 13-14 | 1 | | 3 | | | | 5 | | 9 | 13-14 |
| OVER 14 | 2 | | 4 | | | | | | | OVER 14 |
| N-CT | 375 | 165 | 540 | 356 | 164 | 520 | 369 | 161 | 530 | N-CT |
| MEAN | 5.5 | | 5.1 | 4.0 | | 4.1 | 4.2 | | 4.4 | MEAN |
| S.D. | 2.8 | | 2.8 | 2.7 | | 2.8 | 3.0 | | 3.0 | S.D. |

*APPENDIX C*

## PERSUASION AND MARKETING CLUSTER

### TABLE C.4—DISTRIBUTION OF HIGH SCHOOL GRADES

MEN STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 10 | 2 | 15 | 4 | 37 | 9 | 14 | 3 | 27 | 7 | 55 | 14 |
| B | 104 | 26 | 74 | 18 | 116 | 29 | 81 | 20 | 98 | 24 | 79 | 20 |
| C | 220 | 55 | 197 | 49 | 184 | 46 | 193 | 48 | 108 | 27 | 68 | 17 |
| D | 52 | 13 | 77 | 19 | 31 | 8 | 54 | 13 | 19 | 5 | 10 | 2 |
| F | 3 | 1 | 12 | 3 | 7 | 2 | 7 | 2 | 2 | | 2 | |
| NOT TAKEN | 13 | 3 | 27 | 7 | 27 | 7 | 53 | 13 | 148 | 37 | 188 | 47 |
| MEAN | 2,17 | | 2,01 | | 2,39 | | 2,12 | | 2,51 | | 2,82 | |
| S.D. | ,711 | | ,831 | | ,844 | | ,783 | | ,812 | | ,901 | |
| NO. STUDENTS | 402 | | 402 | | 402 | | 402 | | 402 | | 402 | |

WOMEN STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | | | | | | | | | | | | |
| B | | | | | | | | | | | | |
| C | | | | | | | | | | | | |
| D | | | | | | | | | | | | |
| F | | | | | | | | | | | | |
| NOT TAKEN | | | | | | | | | | | | |
| MEAN | | | | | | | | | | | | |
| S.D. | | | | | | | | | | | | |
| NO. STUDENTS | 171 | | 171 | | 171 | | 171 | | 171 | | 171 | |

TOTAL STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 31 | 5 | 29 | 5 | 54 | 9 | 20 | 3 | 52 | 9 | 97 | 17 |
| B | 175 | 31 | 111 | 19 | 186 | 32 | 136 | 24 | 156 | 27 | 131 | 23 |
| C | 285 | 50 | 267 | 47 | 241 | 42 | 266 | 46 | 161 | 28 | 82 | 14 |
| D | 61 | 11 | 112 | 20 | 41 | 7 | 64 | 11 | 24 | 4 | 11 | 2 |
| F | 3 | 1 | 17 | 3 | 7 | 1 | 8 | 1 | 2 | | 2 | |
| NOT TAKEN | 18 | 3 | 37 | 6 | 44 | 8 | 79 | 14 | 178 | 31 | 250 | 44 |
| MEAN | 2,31 | | 2,04 | | 2,45 | | 2,19 | | 2,59 | | 2,96 | |
| S.D. | ,759 | | ,870 | | ,828 | | ,771 | | ,811 | | ,863 | |
| NO. STUDENTS | 573 | | 573 | | 573 | | 573 | | 573 | | 573 | |

*APPENDIX C*

## PERSUASION AND MARKETING CLUSTER

TABLE C.5—DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)

| | | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
| ACADEMIC MOTIVATION | MEN | 401 | 7 | 63 | 25 | 5 |
| | WOMEN | 170 | | | | |
| | TOTAL | 571 | 7 | 63 | 26 | 4 |
| ADAPTABILITY | MEN | 400 | 5 | 46 | 41 | 9 |
| | WOMEN | 171 | | | | |
| | TOTAL | 571 | 4 | 49 | 38 | 8 |
| ARTISTIC ABILITY | MEN | 399 | 41 | 39 | 15 | 5 |
| | WOMEN | 171 | | | | |
| | TOTAL | 570 | 39 | 39 | 18 | 5 |
| CLERICAL ABILITY | MEN | 398 | 26 | 52 | 18 | 4 |
| | WOMEN | 170 | | | | |
| | TOTAL | 568 | 24 | 54 | 18 | 4 |
| COMMON SENSE | MEN | 401 | 1 | 40 | 47 | 12 |
| | WOMEN | 171 | | | | |
| | TOTAL | 572 | 1 | 45 | 44 | 9 |
| COPING ABILITY | MEN | 401 | 5 | 56 | 33 | 5 |
| | WOMEN | 171 | | | | |
| | TOTAL | 572 | 6 | 59 | 31 | 4 |
| ENGLISH ABILITY | MEN | 402 | 23 | 59 | 16 | 2 |
| | WOMEN | 171 | | | | |
| | TOTAL | 573 | 20 | 61 | 1o | 2 |
| GETTING ALONG | MEN | 402 | 2 | 34 | 47 | 17 |
| | WOMEN | 171 | | | | |
| | TOTAL | 573 | 2 | 34 | 49 | 16 |

**TABLE C.5—DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)—CONTINUED**

| | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
| LEARNING ABILITY | MEN | 401 | 8 | 65 | 23 | 4 |
| | WOMEN | 171 | | | | |
| | TOTAL | 572 | 9 | 65 | 23 | 4 |
| LIKING SCHOOL | MEN | 401 | 10 | 63 | 22 | 5 |
| | WOMEN | 171 | | | | |
| | TOTAL | 572 | 11 | 61 | 22 | 6 |
| MATHEMATICAL ABILITY | MEN | 401 | 31 | 55 | 12 | 2 |
| | WOMEN | 171 | | | | |
| | TOTAL | 572 | 35 | 51 | 11 | 3 |
| MECHANICAL ABILITY | MEN | 401 | 14 | 44 | 33 | 8 |
| | WOMEN | 171 | | | | |
| | TOTAL | 572 | 25 | 42 | 26 | 6 |
| PHYSICAL ENERGY | MEN | 400 | 8 | 39 | 40 | 14 |
| | WOMEN | 171 | | | | |
| | TOTAL | 571 | 8 | 44 | 37 | 11 |
| SCIENTIFIC ABILITY | MEN | 400 | 49 | 42 | 8 | 1 |
| | WOMEN | 170 | | | | |
| | TOTAL | 570 | 52 | 40 | 7 | 1 |
| SOCIAL SELF-CONFIDENCE | MEN | 401 | 10 | 55 | 25 | 10 |
| | WOMEN | 171 | | | | |
| | TOTAL | 572 | 12 | 54 | 25 | 9 |
| WORK MOTIVATION | MEN | 399 | 1 | 33 | 49 | 17 |
| | WOMEN | 171 | | | | |
| | TOTAL | 570 | 1 | 34 | 48 | 16 |

*APPENDIX C*

## HEALTH CLUSTER

### TABLE C.1—DISTRIBUTION OF TEST SCORES (IN PERCENTILES)

| | MECHANICAL SKILLS | | | NONVERBAL REASONING | | | CLERICAL SKILLS | | | NUMERICAL COMPUTATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 99 | 99 | 98 | 98 | 98 | 98 | 97 | 97 | 98 | 98 | 98 | 71-75 |
| 66-70 | 96 | 99 | 99 | 96 | 96 | 96 | 95 | 92 | 92 | 97 | 95 | 96 | 66-70 |
| 61-65 | 86 | 99 | 97 | 89 | 88 | 88 | 91 | 86 | 86 | 90 | 89 | 89 | 61-65 |
| 56-60 | 70 | 94 | 92 | 78 | 77 | 77 | 84 | 75 | 76 | 80 | 78 | 78 | 56-60 |
| 51-55 | 52 | 83 | 80 | 63 | 61 | 61 | 71 | 57 | 59 | 65 | 61 | 61 | 51-55 |
| 46-50 | 33 | 66 | 62 | 45 | 41 | 42 | 52 | 38 | 40 | 49 | 42 | 43 | 46-50 |
| 41-45 | 17 | 42 | 39 | 27 | 25 | 25 | 31 | 22 | 23 | 30 | 24 | 24 | 41-45 |
| 36-40 | 7 | 20 | 19 | 12 | 12 | 12 | 15 | 10 | 11 | 13 | 10 | 10 | 36-40 |
| 31-35 | 3 | 8 | 7 | 5 | 5 | 5 | 6 | 5 | 5 | 5 | 4 | 4 | 31-35 |
| 26-30 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 335 | | | 335 | | | 335 | | | 335 | | MEN |
| WOMEN | | 2620 | | | 2620 | | | 2620 | | | 2620 | | WOMEN |
| TOTAL | | 2955 | | | 2955 | | | 2955 | | | 2955 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | M | W | T | |
| MEAN | 52.4 | 45.0 | 45.9 | 49.6 | 50.1 | 50.0 | 48.4 | 51.5 | 51.1 | 49.0 | 50.2 | 50.0 | MEAN |
| S.D. | 9.4 | 7.8 | 8.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.7 | 10.7 | 9.9 | 9.7 | 9.8 | S.D. |

| | MATHEMATICAL REASONING | | | SPACE RELATIONS | | | READING SKILLS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 98 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 71-75 |
| 66-70 | 94 | 97 | 97 | 96 | 99 | 98 | 97 | 96 | 96 | 66-70 |
| 61-65 | 86 | 92 | 92 | 90 | 96 | 95 | 90 | 86 | 87 | 61-65 |
| 56-60 | 74 | 84 | 83 | 77 | 88 | 87 | 75 | 71 | 71 | 56-60 |
| 51-55 | 57 | 67 | 66 | 60 | 73 | 71 | 58 | 54 | 54 | 51-55 |
| 46-50 | 36 | 44 | 43 | 42 | 52 | 51 | 39 | 35 | 36 | 46-50 |
| 41-45 | 23 | 27 | 27 | 23 | 31 | 30 | 21 | 18 | 19 | 41-45 |
| 36-40 | 12 | 16 | 16 | 12 | 16 | 16 | 9 | 8 | 8 | 36-40 |
| 31-35 | 4 | 8 | 7 | 6 | 9 | 8 | 3 | 3 | 3 | 31-35 |
| 26-30 | 2 | 4 | 4 | 2 | 4 | 4 | 1 | 1 | 1 | 26-30 |
| 20-25 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 335 | | | 335 | | | 335 | | MEN |
| WOMEN | | 2620 | | | 2620 | | | 2620 | | WOMEN |
| TOTAL | | 2955 | | | 2955 | | | 2955 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 51.0 | 48.4 | 48.7 | 50.3 | 47.2 | 47.6 | 50.8 | 51.8 | 51.7 | MEAN |
| S.D. | 10.5 | 10.0 | 10.1 | 10.1 | 9.3 | 9.4 | 9.4 | 9.6 | 9.6 | S.D. |

*APPENDIX C*

## HEALTH CLUSTER

### TABLE C.2–DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)

| | SCIENTIFIC | | | HEALTH | | | ARTISTIC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 97 | 99 | 99 | 97 | 95 | 95 | 98 | 98 | 98 | 71-75 |
| 66-70 | 90 | 98 | 97 | 88 | 84 | 85 | 95 | 93 | 93 | 66-70 |
| 61-65 | 79 | 95 | 93 | 69 | 58 | 60 | 87 | 82 | 83 | 61-65 |
| 56-60 | 60 | 85 | 82 | 43 | 27 | 29 | 71 | 65 | 65 | 56-60 |
| 51-55 | 37 | 68 | 64 | 24 | 9 | 11 | 51 | 46 | 46 | 51-55 |
| 46-50 | 20 | 48 | 45 | 12 | 3 | 4 | 33 | 28 | 28 | 46-50 |
| 41-45 | 11 | 28 | 26 | 5 | 1 | 1 | 18 | 13 | 14 | 41-45 |
| 36-40 | 4 | 12 | 11 | 2 | 1 | 1 | 7 | 6 | 6 | 36-40 |
| 31-35 | 1 | 4 | 4 | 1 | 1 | 1 | 2 | 2 | 2 | 31-35 |
| 26-30 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 331 | | | 332 | | | 331 | | MEN |
| WOMEN | | 2613 | | | 2611 | | | 2614 | | WOMEN |
| TOTAL | | 2944 | | | 2943 | | | 2945 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 56.2 | 49.0 | 49.8 | 58.7 | 61.9 | 61.5 | 52.4 | 53.9 | 53.8 | MEAN |
| S.D. | 9.2 | 8.9 | 9.2 | 8.4 | 6.6 | 6.9 | 9.4 | 9.6 | 9.6 | S.D. |

| | SOCIAL SERV. | | | BUS. CONTACT | | | BUS. MANAG. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 98 | 96 | 96 | 99 | 99 | 99 | 98 | 99 | 99 | 71-75 |
| 66-70 | 95 | 91 | 92 | 97 | 97 | 97 | 96 | 99 | 99 | 66-70 |
| 61-65 | 90 | 80 | 81 | 90 | 92 | 92 | 90 | 97 | 96 | 61-65 |
| 56-60 | 75 | 57 | 59 | 81 | 82 | 82 | 78 | 92 | 91 | 56-60 |
| 51-55 | 55 | 34 | 36 | 63 | 62 | 62 | 59 | 83 | 80 | 51-55 |
| 46-50 | 34 | 17 | 19 | 40 | 41 | 41 | 38 | 67 | 64 | 46-50 |
| 41-45 | 16 | 6 | 7 | 21 | 23 | 23 | 21 | 46 | 43 | 41-45 |
| 36-40 | 6 | 2 | 2 | 10 | 9 | 9 | 8 | 25 | 23 | 36-40 |
| 31-35 | 2 | 1 | 1 | 5 | 3 | 3 | 2 | 11 | 10 | 31-35 |
| 26-30 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 4 | 3 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 331 | | | 331 | | | 331 | | MEN |
| WOMEN | | 2613 | | | 2610 | | | 2610 | | WOMEN |
| TOTAL | | 2944 | | | 2941 | | | 2941 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 52.2 | 56.5 | 56.0 | 49.9 | 49.9 | 49.9 | 51.2 | 44.5 | 45.2 | MEAN |
| S.D. | 9.1 | 8.3 | 8.5 | 9.4 | 9.0 | 9.1 | 9.3 | 9.1 | 9.4 | S.D. |

*APPENDIX C*

**HEALTH CLUSTER**

**TABLE C.2–DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)––CONTINUED**

| | BUS. DETAIL | | | HOUSEHOLD | | | CARPENTRY | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 99 | 99 | 99 | 97 | 97 | 98 | 99 | 99 | 71-75 |
| 66-70 | 98 | 97 | 97 | 99 | 91 | 92 | 96 | 99 | 99 | 66-70 |
| 61-65 | 93 | 92 | 92 | 98 | 79 | 81 | 89 | 98 | 97 | 61-65 |
| 56-60 | 86 | 81 | 82 | 93 | 57 | 61 | 75 | 94 | 92 | 56-60 |
| 51-55 | 72 | 65 | 66 | 81 | 33 | 39 | 57 | 83 | 80 | 51-55 |
| 46-50 | 47 | 44 | 44 | 57 | 16 | 21 | 39 | 66 | 63 | 46-50 |
| 41-45 | 26 | 26 | 26 | 31 | 6 | 9 | 20 | 44 | 42 | 41-45 |
| 36-40 | 14 | 13 | 13 | 17 | 3 | 4 | 7 | 23 | 21 | 36-40 |
| 31-35 | 6 | 5 | 5 | 8 | 1 | 2 | 2 | 10 | 9 | 31-35 |
| 26-30 | 3 | 2 | 2 | 3 | 1 | 1 | 1 | 3 | 3 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 331 | | | 331 | | | 333 | | MEN |
| WOMEN | | 2612 | | | 2613 | | | 2611 | | WOMEN |
| TOTAL | | 2943 | | | 2944 | | | 2944 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 48.3 | 49.2 | 49.1 | 46.2 | 56.6 | 55.4 | 51.3 | 44.5 | 45.3 | MEAN |
| S.D. | 9.3 | 9.5 | 9.5 | 8.2 | 8.5 | 9.1 | 9.6 | 8.5 | 8.9 | S.D. |

| | AGRICULTURE | | | MECHANICAL | | | ELECTRICAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 98 | 99 | 99 | 98 | 99 | 99 | 99 | 99 | 99 | 71-75 |
| 66-70 | 95 | 98 | 98 | 97 | 99 | 99 | 98 | 99 | 99 | 66-70 |
| 61-65 | 84 | 93 | 92 | 93 | 99 | 99 | 90 | 99 | 98 | 61-65 |
| 56-60 | 69 | 85 | 83 | 78 | 99 | 96 | 77 | 98 | 96 | 56-60 |
| 51-55 | 52 | 70 | 68 | 52 | 92 | 88 | 52 | 90 | 86 | 51-55 |
| 46-50 | 31 | 49 | 47 | 27 | 76 | 70 | 27 | 73 | 67 | 46-50 |
| 41-45 | 14 | 30 | 28 | 11 | 53 | 48 | 11 | 49 | 45 | 41-45 |
| 36-40 | 5 | 15 | 14 | 4 | 31 | 28 | 3 | 28 | 25 | 36-40 |
| 31-35 | 1 | 5 | 5 | 2 | 16 | 15 | 1 | 13 | 12 | 31-35 |
| 26-30 | 1 | 2 | 2 | 1 | 8 | 7 | 1 | 6 | 5 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 20-25 |
| MEN | | 331 | | | 332 | | | 332 | | MEN |
| WOMEN | | 2613 | | | 2613 | | | 2611 | | WOMEN |
| TOTAL | | 2944 | | | 2945 | | | 2943 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 53.2 | 48.2 | 48.8 | 52.4 | 41.6 | 42.8 | 52.5 | 42.3 | 43.4 | MEAN |
| S.D. | 9.4 | 9.4 | 9.6 | 8.1 | 8.4 | 9.0 | 7.5 | 8.3 | 8.8 | S.D. |

*APPENDIX C*

## HEALTH CLUSTER

### TABLE C.3–DISTRIBUTION OF SPECIAL COMPETENCIES

| | SKILLED TRADES | | | HOME ECONOMICS | | | SCIENTIFIC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 11 | 839 | 850 | 28 | 6 | 34 | 10 | 68 | 78 | 0 |
| 1 | 4 | 329 | 333 | 19 | 15 | 34 | 16 | 132 | 148 | 1 |
| 2 | 12 | 353 | 365 | 32 | 44 | 76 | 25 | 464 | 489 | 2 |
| 3 | 10 | 272 | 282 | 43 | 56 | 99 | 44 | 435 | 479 | 3 |
| 4 | 13 | 184 | 197 | 36 | 87 | 123 | 38 | 420 | 458 | 4 |
| 5 | 28 | 120 | 148 | 33 | 130 | 163 | 48 | 334 | 382 | 5 |
| 6 | 27 | 58 | 85 | 23 | 156 | 179 | 43 | 259 | 302 | 6 |
| 7-8 | 27 | 74 | 101 | 49 | 440 | 489 | 60 | 275 | 335 | 7-8 |
| 9-10 | 36 | 44 | 80 | 26 | 527 | 553 | 32 | 101 | 133 | 9-10 |
| 11-12 | 50 | 52 | 102 | 13 | 542 | 555 | | | | 11-12 |
| 13-14 | 27 | 13 | 40 | 6 | 541 | 547 | | | | 13-14 |
| OVER 14 | 74 | 34 | 108 | | | | | | | OVER 14 |
| N-CT | 319 | 2372 | 2691 | 308 | 2544 | 2852 | 316 | 2488 | 2804 | N-CT |
| MEAN | 10.0 | 2.5 | 3.4 | 4.9 | 9.5 | 9.0 | 5.0 | 4.1 | 4.2 | MEAN |
| S.D. | 5.4 | 3.5 | 4.5 | 3.3 | 3.2 | 3.5 | 3.5 | 2.2 | 2.2 | S.D. |

| | SPORTS | | | ARTISTIC | | | COMMUNITY SERV. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 7 | 150 | 157 | 34 | 56 | 90 | 83 | 275 | 358 | 0 |
| 1 | 13 | 353 | 366 | 40 | 119 | 159 | 68 | 374 | 442 | 1 |
| 2 | 20 | 549 | 569 | 46 | 215 | 261 | 46 | 467 | 513 | 2 |
| 3 | 30 | 438 | 468 | 41 | 286 | 327 | 33 | 402 | 435 | 3 |
| 4 | 41 | 367 | 408 | 39 | 303 | 342 | 22 | 319 | 341 | 4 |
| 5 | 43 | 215 | 258 | 26 | 315 | 341 | 17 | 218 | 235 | 5 |
| 6 | 37 | 151 | 188 | 19 | 283 | 302 | 16 | 177 | 193 | 6 |
| 7-8 | 61 | 110 | 171 | 42 | 435 | 477 | 16 | 174 | 190 | 7-8 |
| 9-10 | 38 | 36 | 74 | 16 | 300 | 316 | 5 | 73 | 78 | 9-10 |
| 11-12 | 16 | 36 | 52 | 6 | 126 | 132 | | | | 11-12 |
| 13-14 | | | | 3 | 48 | 51 | | | | 13-14 |
| OVER 14 | | | | | 11 | 11 | | | | OVER 14 |
| N-CT | 306 | 2405 | 2711 | 312 | 2497 | 2809 | 306 | 2479 | 2785 | N-CT |
| MEAN | 5.7 | 3.2 | 3.5 | 3.9 | 5.7 | 5.5 | 2.3 | 3.2 | 3.1 | MEAN |
| S.D. | 2.8 | 2.2 | 2.4 | 3.0 | 3.1 | 3.1 | 2.3 | 2.3 | 2.3 | S.D. |

| | BUSINESS | | | LEADERSHIP | | | CLERICAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 5 | 76 | 81 | 30 | 118 | 148 | 24 | 136 | 160 | 0 |
| 1 | 21 | 214 | 235 | 39 | 255 | 294 | 61 | 248 | 309 | 1 |
| 2 | 23 | 462 | 485 | 45 | 353 | 398 | 41 | 350 | 391 | 2 |
| 3 | 34 | 487 | 521 | 28 | 349 | 377 | 40 | 315 | 355 | 3 |
| 4 | 49 | 447 | 496 | 32 | 325 | 357 | 36 | 273 | 309 | 4 |
| 5 | 52 | 342 | 394 | 35 | 273 | 308 | 31 | 234 | 265 | 5 |
| 6 | 44 | 208 | 252 | 28 | 243 | 271 | 15 | 193 | 208 | 6 |
| 7-8 | 44 | 169 | 213 | 28 | 372 | 400 | 29 | 341 | 370 | 7-8 |
| 9-10 | 18 | 42 | 60 | 21 | 148 | 169 | 13 | 239 | 252 | 9-10 |
| 11-12 | 8 | 18 | 26 | 12 | 47 | 59 | 7 | 125 | 132 | 11-12 |
| 13-14 | 2 | 9 | 11 | | | | 4 | 36 | 40 | 13-14 |
| OVER 14 | 5 | 11 | 16 | | | | 2 | 11 | 13 | OVER 14 |
| N-CT | 305 | 2485 | 2790 | 298 | 2483 | 2781 | 303 | 2501 | 2804 | N-CT |
| MEAN | 5.2 | 3.8 | 4.0 | 4.1 | 4.3 | 4.3 | 3.8 | 4.9 | 4.8 | MEAN |
| S.D. | 2.9 | 2.3 | 2.4 | 3.0 | 2.7 | 2.7 | 3.1 | 3.3 | 3.3 | S.D. |

*APPENDIX C*

## HEALTH CLUSTER

### TABLE C.4–DISTRIBUTION OF HIGH SCHOOL GRADES

MEN STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 14 | 4 | 21 | 6 | 41 | 12 | 32 | 10 | 23 | 7 | 43 | 13 |
| B | 111 | 33 | 76 | 23 | 114 | 34 | 91 | 27 | 63 | 19 | 87 | 26 |
| C | 167 | 50 | 146 | 44 | 134 | 40 | 148 | 44 | 66 | 20 | 43 | 13 |
| D | 30 | 9 | 68 | 20 | 20 | 6 | 26 | 8 | 12 | 4 | 6 | 2 |
| F | 3 | 1 | 7 | 2 | 1 | | 3 | 1 | 3 | 1 | 1 | |
| NOT TAKEN | 10 | 3 | 17 | 5 | 25 | 7 | 35 | 10 | 168 | 50 | 155 | 46 |
| MEAN | 2.32 | | 2.11 | | 2.56 | | 2.41 | | 2.54 | | 2.92 | |
| S.D. | .737 | | .890 | | .812 | | .830 | | .880 | | .809 | |
| NO. STUDENTS | 335 | | 335 | | 335 | | 335 | | 335 | | 335 | |

WOMEN STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 465 | 18 | 215 | 8 | 439 | 17 | 298 | 11 | 486 | 19 | 570 | 22 |
| B | 1262 | 48 | 806 | 31 | 1096 | 42 | 932 | 36 | 850 | 32 | 696 | 27 |
| C | 764 | 29 | 1171 | 45 | 880 | 34 | 988 | 38 | 543 | 21 | 242 | 9 |
| D | 53 | 2 | 265 | 10 | 76 | 3 | 128 | 5 | 44 | 2 | 8 | |
| F | 4 | | 21 | 1 | 2 | | 6 | | 8 | | 1 | |
| NOT TAKEN | 72 | 3 | 142 | 5 | 127 | 5 | 268 | 10 | 689 | 26 | 1103 | 42 |
| MEAN | 2.84 | | 2.37 | | 2.76 | | 2.59 | | 2.91 | | 3.20 | |
| S.D. | .744 | | .820 | | .775 | | .787 | | .808 | | .722 | |
| NO. STUDENTS | 2,620 | | 2,620 | | 2,620 | | 2,620 | | 2,620 | | 2,620 | |

TOTAL STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 479 | 16 | 236 | 8 | 480 | 16 | 330 | 11 | 509 | 17 | 613 | 21 |
| B | 1373 | 46 | 882 | 30 | 1210 | 41 | 1023 | 35 | 913 | 31 | 783 | 26 |
| C | 931 | 32 | 1317 | 45 | 1014 | 34 | 1136 | 38 | 609 | 21 | 285 | 10 |
| D | 83 | 3 | 333 | 11 | 96 | 3 | 154 | 5 | 56 | 2 | 14 | |
| F | 7 | | 28 | 1 | 3 | | 9 | | 11 | | 2 | |
| NOT TAKEN | 82 | 3 | 159 | 5 | 152 | 5 | 303 | 10 | 857 | 29 | 1258 | 43 |
| MEAN | 2.78 | | 2.35 | | 2.74 | | 2.57 | | 2.88 | | 3.17 | |
| S.D. | .761 | | .833 | | .782 | | .794 | | .820 | | .737 | |
| NO. STUDENTS | 2,955 | | 2,955 | | 2,955 | | 2,955 | | 2,955 | | 2,955 | |

*APPENDIX C*

## HEALTH CLUSTER

### TABLE C.5—DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)

| | | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
| ACADEMIC MOTIVATION | MEN | 334 | 4 | 52 | 37 | 7 |
| | WOMEN | 2612 | 2 | 45 | 42 | 11 |
| | TOTAL | 2946 | 2 | 46 | 42 | 10 |
| ADAPTABILITY | MEN | 334 | 3 | 45 | 41 | 11 |
| | WOMEN | 2615 | 3 | 53 | 37 | 6 |
| | TOTAL | 2949 | 3 | 52 | 38 | 7 |
| ARTISTIC ABILITY | MEN | 331 | 35 | 39 | 23 | 3 |
| | WOMEN | 2597 | 35 | 45 | 18 | 2 |
| | TOTAL | 2928 | 35 | 44 | 19 | 2 |
| CLERICAL ABILITY | MEN | 333 | 26 | 55 | 16 | 3 |
| | WOMEN | 2604 | 21 | 55 | 21 | 3 |
| | TOTAL | 2937 | 22 | 55 | 21 | 3 |
| COMMON SENSE | MEN | 334 | 1 | 42 | 42 | 15 |
| | WOMEN | 2613 | 2 | 50 | 40 | 8 |
| | TOTAL | 2947 | 2 | 49 | 40 | 9 |
| COPING ABILITY | MEN | 333 | 4 | 51 | 37 | 8 |
| | WOMEN | 2611 | 5 | 61 | 29 | 4 |
| | TOTAL | 2944 | 5 | 60 | 30 | 5 |
| ENGLISH ABILITY | MEN | 335 | 19 | 59 | 20 | 3 |
| | WOMEN | 2616 | 10 | 58 | 27 | 5 |
| | TOTAL | 2951 | 11 | 58 | 26 | 5 |
| GETTING ALONG | MEN | 334 | 3 | 34 | 46 | 17 |
| | WOMEN | 2613 | 1 | 40 | 47 | 12 |
| | TOTAL | 2947 | 1 | 40 | 47 | 12 |

*APPENDIX C*

**HEALTH CLUSTER**

**TABLE C.5–DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)––CONTINUED**

| TRAITS | SEX | N-CT | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE: BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
|---|---|---|---|---|---|---|
| LEARNING ABILITY | MEN | 335 | 8 | 56 | 32 | 4 |
| | WOMEN | 2618 | 7 | 66 | 24 | 4 |
| | TOTAL | 2953 | 7 | 65 | 25 | 4 |
| LIKING SCHOOL | MEN | 334 | 6 | 51 | 36 | 7 |
| | WOMEN | 2617 | 5 | 48 | 37 | 10 |
| | TOTAL | 2951 | 5 | 49 | 37 | 9 |
| MATHEMATICAL ABILITY | MEN | 334 | 27 | 50 | 19 | 4 |
| | WOMEN | 2616 | 40 | 47 | 11 | 1 |
| | TOTAL | 2950 | 38 | 48 | 12 | 2 |
| MECHANICAL ABILITY | MEN | 334 | 15 | 37 | 38 | 10 |
| | WOMEN | 2616 | 40 | 48 | 10 | 1 |
| | TOTAL | 2950 | 37 | 47 | 13 | 2 |
| PHYSICAL ENERGY | MEN | 333 | 5 | 41 | 43 | 11 |
| | WOMEN | 2618 | 6 | 56 | 32 | 7 |
| | TOTAL | 2951 | 5 | 54 | 33 | 7 |
| SCIENTIFIC ABILITY | MEN | 334 | 16 | 57 | 22 | 5 |
| | WOMEN | 2615 | 28 | 59 | 11 | 1 |
| | TOTAL | 2949 | 27 | 59 | 13 | 2 |
| SOCIAL SELF-CONFIDENCE | MEN | 333 | 14 | 47 | 33 | 7 |
| | WOMEN | 2618 | 12 | 56 | 26 | 6 |
| | TOTAL | 2951 | 12 | 55 | 27 | 6 |
| WORK MOTIVATION | MEN | 331 | 2 | 29 | 54 | 15 |
| | WOMEN | 2605 | 1 | 29 | 55 | 15 |
| | TOTAL | 2936 | 1 | 29 | 55 | 15 |

*APPENDIX C*

## BUSINESS AND OFFICE CLUSTER

### TABLE C.1—DISTRIBUTION OF TEST SCORES (IN PERCENTILES)

| | MECHANICAL SKILLS | | | NONVERBAL REASONING | | | CLERICAL SKILLS | | | NUMERICAL COMPUTATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 99 | 99 | 98 | 99 | 99 | 98 | 97 | 97 | 97 | 97 | 97 | 71-75 |
| 66-70 | 96 | 99 | 98 | 96 | 97 | 97 | 93 | 91 | 92 | 93 | 93 | 93 | 66-70 |
| 61-65 | 87 | 99 | 95 | 89 | 90 | 89 | 87 | 83 | 84 | 83 | 84 | 84 | 61-65 |
| 56-60 | 71 | 96 | 87 | 78 | 78 | 78 | 76 | 71 | 73 | 67 | 70 | 69 | 56-60 |
| 51-55 | 50 | 87 | 74 | 60 | 60 | 60 | 57 | 52 | 54 | 47 | 52 | 50 | 51-55 |
| 46-50 | 30 | 71 | 56 | 39 | 38 | 39 | 37 | 32 | 34 | 29 | 34 | 32 | 46-50 |
| 41-45 | 15 | 47 | 35 | 22 | 22 | 22 | 20 | 17 | 18 | 15 | 18 | 17 | 41-45 |
| 36-40 | 5 | 24 | 17 | 10 | 10 | 10 | 7 | 7 | 7 | 5 | 7 | 6 | 36-40 |
| 31-35 | 2 | 9 | 7 | 4 | 4 | 4 | 2 | 3 | 3 | 2 | 3 | 3 | 31-35 |
| 26-30 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 1269 | | | 1269 | | | 1269 | | | 1269 | | MEN |
| WOMEN | | 2202 | | | 2202 | | | 2202 | | | 2202 | | WOMEN |
| TOTAL | | 3471 | | | 3471 | | | 3471 | | | 3471 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | M | W | T | |
| MEAN | 52.9 | 44.0 | 47.2 | 50.6 | 50.4 | 50.5 | 51.8 | 52.9 | 52.5 | 53.4 | 52.4 | 52.7 | MEAN |
| S.D. | 8.8 | 7.7 | 9.2 | 9.7 | 9.4 | 9.5 | 9.8 | 10.3 | 10.1 | 9.5 | 9.9 | 9.7 | S.D. |

| | MATHEMATICAL REASONING | | | SPACE RELATIONS | | | READING SKILLS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 98 | 99 | 99 | 98 | 99 | 99 | 99 | 99 | 99 | 71-75 |
| 66-70 | 92 | 97 | 95 | 95 | 99 | 98 | 96 | 96 | 96 | 66-70 |
| 61-65 | 81 | 92 | 88 | 88 | 96 | 93 | 87 | 90 | 89 | 61-65 |
| 56-60 | 66 | 84 | 78 | 74 | 88 | 83 | 72 | 77 | 75 | 56-60 |
| 51-55 | 44 | 68 | 59 | 53 | 72 | 65 | 54 | 60 | 58 | 51-55 |
| 46-50 | 23 | 45 | 37 | 33 | 51 | 44 | 35 | 41 | 39 | 46-50 |
| 41-45 | 12 | 29 | 23 | 18 | 30 | 26 | 18 | 23 | 21 | 41-45 |
| 36-40 | 6 | 18 | 14 | 9 | 15 | 13 | 7 | 10 | 9 | 36-40 |
| 31-35 | 2 | 9 | 7 | 5 | 7 | 7 | 2 | 3 | 3 | 31-35 |
| 26-30 | 1 | 5 | 4 | 2 | 3 | 3 | 1 | 1 | 1 | 26-30 |
| 20-25 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 1269 | | | 1269 | | | 1269 | | MEN |
| WOMEN | | 2202 | | | 2202 | | | 2202 | | WOMEN |
| TOTAL | | 3471 | | | 3471 | | | 3471 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 54.0 | 48.0 | 50.2 | 51.7 | 47.4 | 49.0 | 51.7 | 50.3 | 50.8 | MEAN |
| S.D. | 9.4 | 10.3 | 10.4 | 10.1 | 9.1 | 9.7 | 9.3 | 9.5 | 9.5 | S.D. |

*APPENDIX C*

## BUSINESS AND OFFICE CLUSTER

### TABLE C.2–DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)

| | SCIENTIFIC | | | HEALTH | | | ARTISTIC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 98 | 99 | 99 | 99 | 99 | 99 | 99 | 98 | 99 | 71-75 |
| 66-70 | 95 | 99 | 98 | 99 | 98 | 99 | 97 | 95 | 96 | 66-70 |
| 61-65 | 87 | 97 | 94 | 97 | 92 | 94 | 93 | 87 | 89 | 61-65 |
| 56-60 | 74 | 93 | 86 | 90 | 78 | 82 | 83 | 72 | 76 | 56-60 |
| 51-55 | 54 | 84 | 73 | 76 | 57 | 64 | 69 | 54 | 59 | 51-55 |
| 46-50 | 32 | 68 | 55 | 52 | 36 | 42 | 49 | 35 | 40 | 46-50 |
| 41-45 | 16 | 49 | 37 | 26 | 18 | 21 | 27 | 17 | 21 | 41-45 |
| 36-40 | 6 | 29 | 20 | 11 | 8 | 9 | 11 | 8 | 9 | 36-40 |
| 31-35 | 2 | 14 | 9 | 4 | 3 | 3 | 4 | 3 | 4 | 31-35 |
| 26-30 | 1 | 6 | 4 | 1 | 1 | 1 | 2 | 1 | 1 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 1269 | | | 1268 | | | 1269 | | MEN |
| WOMEN | | 2199 | | | 2198 | | | 2199 | | WOMEN |
| TOTAL | | 3468 | | | 3466 | | | 3468 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 52.8 | 43.9 | 47.1 | 47.8 | 51.1 | 49.9 | 48.7 | 52.1 | 50.9 | MEAN |
| S.D. | 9.0 | 9.4 | 10.2 | 7.7 | 8.7 | 8.5 | 9.1 | 9.6 | 9.5 | S.D. |

| | SOCIAL SERV. | | | BUS. CONTACT | | | BUS. MANAG. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 98 | 98 | 98 | 97 | 97 | 96 | 99 | 98 | 71-75 |
| 66-70 | 99 | 94 | 95 | 92 | 92 | 92 | 89 | 97 | 94 | 66-70 |
| 61-65 | 95 | 85 | 89 | 82 | 80 | 81 | 75 | 91 | 85 | 61-65 |
| 56-60 | 85 | 66 | 73 | 68 | 62 | 64 | 56 | 80 | 72 | 56-60 |
| 51-55 | 70 | 44 | 53 | 47 | 39 | 42 | 37 | 65 | 55 | 51-55 |
| 46-50 | 48 | 24 | 33 | 27 | 20 | 23 | 20 | 46 | 37 | 46-50 |
| 41-45 | 24 | 10 | 15 | 14 | 9 | 11 | 9 | 26 | 20 | 41-45 |
| 36-40 | 10 | 3 | 5 | 5 | 3 | 4 | 3 | 12 | 8 | 36-40 |
| 31-35 | 3 | 1 | 2 | 1 | 1 | 1 | 1 | 5 | 3 | 31-35 |
| 26-30 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 1269 | | | 1268 | | | 1268 | | MEN |
| WOMEN | | 2199 | | | 2198 | | | 2198 | | WOMEN |
| TOTAL | | 3468 | | | 3466 | | | 3466 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 48.8 | 54.4 | 52.3 | 53.8 | 55.3 | 54.7 | 56.4 | 49.6 | 52.0 | MEAN |
| S.D. | 8.4 | 8.5 | 8.9 | 9.3 | 8.8 | 9.0 | 9.3 | 9.7 | 10.1 | S.D. |

*APPENDIX C*

**BUSINESS AND OFFICE CLUSTER**

**TABLE C.2–DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)––CONTINUED**

| | BUS. DETAIL | | | HOUSEHOLD | | | CARPENTRY | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 98 | 94 | 95 | 99 | 96 | 97 | 99 | 99 | 99 | 71-75 |
| 66-70 | 94 | 83 | 87 | 99 | 90 | 93 | 98 | 99 | 99 | 66-70 |
| 61-65 | 82 | 64 | 70 | 99 | 77 | 85 | 92 | 98 | 96 | 61-65 |
| 56-60 | 65 | 41 | 50 | 94 | 54 | 69 | 79 | 95 | 89 | 56-60 |
| 51-55 | 43 | 23 | 30 | 84 | 31 | 50 | 61 | 85 | 76 | 51-55 |
| 46-50 | 21 | 10 | 14 | 64 | 15 | 33 | 40 | 70 | 59 | 46-50 |
| 41-45 | 9 | 4 | 6 | 39 | 5 | 17 | 20 | 49 | 39 | 41-45 |
| 36-40 | 4 | 1 | 2 | 20 | 2 | 8 | 7 | 26 | 19 | 36-40 |
| 31-35 | 1 | 1 | 1 | 8 | 1 | 3 | 2 | 11 | 8 | 31-35 |
| 26-30 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 4 | 3 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 1268 | | | 1268 | | | 1268 | | MEN |
| WOMEN | | 2199 | | | 2198 | | | 2198 | | WOMEN |
| TOTAL | | 3467 | | | 3466 | | | 3466 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 54.5 | 59.4 | 57.6 | 45.1 | 57.3 | 52.8 | 50.4 | 43.6 | 46.1 | MEAN |
| S.D. | 8.5 | 8.3 | 8.7 | 8.0 | 8.3 | 10.1 | 8.4 | 8.4 | 9.0 | S.D. |

| | AGRICULTURE | | | MECHANICAL | | | ELECTRICAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 71-75 |
| 66-70 | 98 | 99 | 99 | 98 | 99 | 99 | 97 | 99 | 99 | 66-70 |
| 61-65 | 94 | 97 | 96 | 93 | 99 | 97 | 86 | 99 | 95 | 61-65 |
| 56-60 | 86 | 92 | 90 | 78 | 99 | 91 | 65 | 98 | 86 | 56-60 |
| 51-55 | 71 | 83 | 79 | 50 | 92 | 77 | 38 | 86 | 69 | 51-55 |
| 46-50 | 47 | 65 | 59 | 24 | 76 | 57 | 16 | 65 | 47 | 46-50 |
| 41-45 | 25 | 44 | 37 | 8 | 54 | 37 | 5 | 41 | 28 | 41-45 |
| 36-40 | 10 | 25 | 19 | 2 | 31 | 21 | 1 | 21 | 14 | 36-40 |
| 31-35 | 3 | 10 | 8 | 1 | 17 | 11 | 1 | 8 | 5 | 31-35 |
| 26-30 | 1 | 5 | 3 | 1 | 10 | 6 | 1 | 3 | 2 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 3 | 2 | 1 | 1 | 1 | 20-25 |
| MEN | | 1268 | | | 1268 | | | 1268 | | MEN |
| WOMEN | | 2198 | | | 2199 | | | 2198 | | WOMEN |
| TOTAL | | 3466 | | | 3467 | | | 3466 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 48.8 | 44.5 | 46.1 | 52.8 | 41.3 | 45.5 | 55.0 | 44.2 | 48.2 | MEAN |
| S.D. | 8.5 | 9.2 | 9.2 | 6.7 | 8.5 | 9.7 | 7.1 | 7.8 | 9.2 | S.D. |

*APPENDIX C*

## BUSINESS AND OFFICE CLUSTER

### TABLE C.3—DISTRIBUTION OF SPECIAL COMPETENCIES

| | SKILLED TRADES | | | HOME ECONOMICS | | | SCIENTIFIC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 32 | 988 | 1020 | 199 | 10 | 209 | 68 | 293 | 361 | 0 |
| 1 | 34 | 311 | 345 | 165 | 33 | 198 | 110 | 392 | 502 | 1 |
| 2 | 55 | 278 | 333 | 150 | 48 | 198 | 197 | 446 | 643 | 2 |
| 3 | 74 | 187 | 261 | 159 | 79 | 238 | 200 | 347 | 547 | 3 |
| 4 | 89 | 89 | 178 | 128 | 123 | 251 | 172 | 235 | 407 | 4 |
| 5 | 78 | 52 | 130 | 124 | 177 | 301 | 147 | 157 | 304 | 5 |
| 6 | 82 | 32 | 114 | 95 | 194 | 289 | 126 | 85 | 211 | 6 |
| 7-8 | 169 | 31 | 200 | 101 | 472 | 573 | 129 | 84 | 213 | 7-8 |
| 9-10 | 185 | 19 | 204 | 56 | 450 | 506 | 55 | 18 | 73 | 9-10 |
| 11-12 | 148 | 31 | 179 | 18 | 343 | 361 | | | | 11-12 |
| 13-14 | 108 | 5 | 113 | 9 | 207 | 216 | | | | 13-14 |
| OVER 14 | 180 | 19 | 199 | | | | | | | OVER 14 |
| N-CT | 1234 | 2042 | 3276 | 1204 | 2136 | 3340 | 1204 | 2057 | 3261 | N-CT |
| MEAN | 8.8 | 1.7 | 4.4 | 3.5 | 8.2 | 6.5 | 3.9 | 2.6 | 3.1 | MEAN |
| S.D. | 5.0 | 3.0 | 5.2 | 2.9 | 3.2 | 3.8 | 2.4 | 2.0 | 2.2 | S.D. |

| | SPORTS | | | ARTISTIC | | | COMMUNITY SERV. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 20 | 170 | 190 | 183 | 90 | 273 | 535 | 511 | 1046 | 0 |
| 1 | 44 | 419 | 463 | 170 | 142 | 312 | 235 | 413 | 648 | 1 |
| 2 | 98 | 497 | 595 | 202 | 217 | 419 | 166 | 404 | 570 | 2 |
| 3 | 128 | 356 | 484 | 165 | 265 | 430 | 115 | 290 | 405 | 3 |
| 4 | 150 | 237 | 387 | 131 | 293 | 424 | 63 | 183 | 246 | 4 |
| 5 | 155 | 159 | 314 | 119 | 265 | 384 | 46 | 134 | 180 | 5 |
| 6 | 143 | 76 | 219 | 67 | 224 | 291 | 20 | 63 | 83 | 6 |
| 7-8 | 257 | 64 | 321 | 106 | 340 | 446 | 30 | 57 | 87 | 7-8 |
| 9-10 | 148 | 22 | 170 | 30 | 186 | 216 | 8 | 26 | 34 | 9-10 |
| 11-12 | 53 | 33 | 86 | 18 | 67 | 85 | | | | 11-12 |
| 13-14 | | | | 9 | 26 | 35 | | | | 13-14 |
| OVER 14 | | | | | 4 | 4 | | | | OVER 14 |
| N-CT | 1196 | 2033 | 3229 | 1200 | 2119 | 3319 | 1218 | 2081 | 3299 | N-CT |
| MEAN | 5.7 | 2.8 | 3.9 | 3.3 | 5.0 | 4.4 | 1.5 | 2.2 | 1.9 | MEAN |
| S.D. | 2.8 | 2.2 | 2.8 | 2.8 | 3.0 | 3.0 | 1.9 | 2.1 | 2.0 | S.D. |

| | BUSINESS | | | LEADERSHIP | | | CLERICAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 13 | 133 | 146 | 163 | 201 | 364 | 42 | 38 | 80 | 0 |
| 1 | 54 | 231 | 285 | 156 | 263 | 419 | 97 | 76 | 173 | 1 |
| 2 | 124 | 393 | 517 | 187 | 351 | 538 | 130 | 142 | 272 | 2 |
| 3 | 179 | 415 | 594 | 166 | 312 | 478 | 136 | 188 | 324 | 3 |
| 4 | 176 | 326 | 502 | 138 | 270 | 408 | 154 | 230 | 384 | 4 |
| 5 | 187 | 267 | 454 | 115 | 229 | 344 | 144 | 246 | 390 | 5 |
| 6 | 156 | 182 | 338 | 81 | 137 | 218 | 134 | 216 | 350 | 6 |
| 7-8 | 195 | 97 | 292 | 91 | 199 | 290 | 192 | 425 | 617 | 7-8 |
| 9-10 | 79 | 26 | 105 | 54 | 89 | 143 | 113 | 302 | 415 | 9-10 |
| 11-12 | 33 | 15 | 48 | 23 | 17 | 40 | 41 | 174 | 215 | 11-12 |
| 13-14 | 4 | 4 | 8 | | | | 11 | 74 | 85 | 13-14 |
| OVER 14 | 8 | 14 | 22 | | | | 5 | 8 | 13 | OVER 14 |
| N-CT | 1208 | 2103 | 3311 | 1174 | 2068 | 3242 | 1199 | 2119 | 3318 | N-CT |
| MEAN | 5.1 | 3.5 | 4.1 | 3.5 | 3.6 | 3.6 | 5.1 | 6.4 | 5.9 | MEAN |
| S.D. | 2.7 | 2.3 | 2.6 | 2.8 | 2.5 | 2.6 | 3.0 | 3.3 | 3.2 | S.D. |

*APPENDIX C*

## BUSINESS AND OFFICE CLUSTER

### TABLE C.4—DISTRIBUTION OF HIGH SCHOOL GRADES

MEN STUDENTS

| | ENGLISH FREQ | ENGLISH PC | MATH FREQ | MATH PC | SOC. S. FREQ | SOC. S. PC | N. SCI. FREQ | N. SCI. PC | BUSINESS FREQ | BUSINESS PC | VOCATIONAL FREQ | VOCATIONAL PC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 75 | 6 | 107 | 8 | 134 | 11 | 79 | 6 | 178 | 14 | 167 | 13 |
| B | 373 | 29 | 350 | 28 | 424 | 33 | 360 | 28 | 378 | 30 | 321 | 25 |
| C | 662 | 52 | 543 | 43 | 555 | 44 | 568 | 45 | 280 | 22 | 192 | 15 |
| D | 132 | 10 | 207 | 16 | 87 | 7 | 137 | 11 | 35 | 3 | 22 | 2 |
| F | 6 | | 18 | 1 | 2 | | 14 | 1 | 4 | | 4 | |
| NOT TAKEN | 21 | 2 | 44 | 3 | 67 | 5 | 111 | 9 | 394 | 31 | 563 | 44 |
| MEAN | 2,30 | | 2,26 | | 2,50 | | 2,30 | | 2,79 | | 2,89 | |
| S.D. | ,756 | | ,891 | | ,792 | | ,811 | | ,825 | | ,819 | |
| NO. STUDENTS | 1,269 | | 1,269 | | 1,269 | | 1,269 | | 1,269 | | 1,269 | |

WOMEN STUDENTS

| | ENGLISH FREQ | ENGLISH PC | MATH FREQ | MATH PC | SOC. S. FREQ | SOC. S. PC | N. SCI. FREQ | N. SCI. PC | BUSINESS FREQ | BUSINESS PC | VOCATIONAL FREQ | VOCATIONAL PC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 366 | 17 | 250 | 11 | 381 | 17 | 208 | 9 | 647 | 29 | 513 | 23 |
| B | 1066 | 48 | 711 | 32 | 859 | 39 | 737 | 33 | 873 | 40 | 575 | 26 |
| C | 661 | 30 | 877 | 40 | 732 | 33 | 864 | 39 | 367 | 17 | 203 | 9 |
| D | 62 | 3 | 230 | 10 | 99 | 4 | 143 | 7 | 35 | 2 | 7 | |
| F | 2 | | 17 | 1 | 4 | | 8 | | 2 | | 1 | |
| NOT TAKEN | 45 | 2 | 117 | 5 | 127 | 6 | 240 | 11 | 278 | 13 | 903 | 41 |
| MEAN | 2,80 | | 2,45 | | 2,73 | | 2,51 | | 3,11 | | 3,23 | |
| S.D. | ,749 | | ,870 | | ,819 | | ,796 | | ,773 | | ,727 | |
| NO. STUDENTS | 2,202 | | 2,202 | | 2,202 | | 2,202 | | 2,202 | | 2,202 | |

TOTAL STUDENTS

| | ENGLISH FREQ | ENGLISH PC | MATH FREQ | MATH PC | SOC. S. FREQ | SOC. S. PC | N. SCI. FREQ | N. SCI. PC | BUSINESS FREQ | BUSINESS PC | VOCATIONAL FREQ | VOCATIONAL PC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 441 | 13 | 357 | 10 | 515 | 15 | 287 | 8 | 825 | 24 | 680 | 20 |
| B | 1439 | 41 | 1061 | 31 | 1283 | 37 | 1097 | 32 | 1251 | 36 | 896 | 26 |
| C | 1323 | 38 | 1420 | 41 | 1287 | 37 | 1432 | 41 | 647 | 19 | 395 | 11 |
| D | 194 | 6 | 437 | 13 | 186 | 5 | 282 | 8 | 70 | 2 | 29 | 1 |
| F | 8 | | 35 | 1 | 6 | | 22 | 1 | 6 | | 5 | |
| NOT TAKEN | 66 | 2 | 161 | 5 | 194 | 6 | 351 | 10 | 672 | 19 | 1466 | 42 |
| MEAN | 2,62 | | 2,38 | | 2,65 | | 2,43 | | 3,01 | | 3,11 | |
| S.D. | ,789 | | ,883 | | ,817 | | ,808 | | ,803 | | ,778 | |
| NO. STUDENTS | 3,471 | | 3,471 | | 3,471 | | 3,471 | | 3,471 | | 3,471 | |

*APPENDIX C*

## BUSINESS AND OFFICE CLUSTER

### TABLE C.5—DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)

| | | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
| ACADEMIC MOTIVATION | MEN | 1266 | 4 | 56 | 33 | 7 |
| | WOMEN | 2190 | 2 | 55 | 34 | 8 |
| | TOTAL | 3456 | 3 | 55 | 34 | 8 |
| ADAPTABILITY | MEN | 1265 | 4 | 54 | 35 | 6 |
| | WOMEN | 2194 | 3 | 60 | 31 | 5 |
| | TOTAL | 3459 | 4 | 58 | 33 | 6 |
| ARTISTIC ABILITY | MEN | 1254 | 45 | 38 | 14 | 3 |
| | WOMEN | 2185 | 39 | 43 | 15 | 3 |
| | TOTAL | 3439 | 41 | 41 | 15 | 3 |
| CLERICAL ABILITY | MEN | 1262 | 13 | 52 | 29 | 5 |
| | WOMEN | 2198 | 5 | 50 | 37 | 8 |
| | TOTAL | 3460 | 8 | 51 | 34 | 7 |
| COMMON SENSE | MEN | 1267 | 1 | 42 | 45 | 12 |
| | WOMEN | 2200 | 2 | 56 | 34 | 7 |
| | TOTAL | 3467 | 2 | 51 | 38 | 9 |
| COPING ABILITY | MEN | 1265 | 6 | 61 | 28 | 5 |
| | WOMEN | 2199 | 8 | 70 | 20 | 2 |
| | TOTAL | 3464 | 7 | 67 | 23 | 3 |
| ENGLISH ABILITY | MEN | 1268 | 23 | 59 | 16 | 3 |
| | WOMEN | 2196 | 13 | 62 | 22 | 4 |
| | TOTAL | 3464 | 16 | 61 | 20 | 3 |
| GETTING ALONG | MEN | 1266 | 2 | 42 | 43 | 13 |
| | WOMEN | 2198 | 1 | 42 | 44 | 12 |
| | TOTAL | 3464 | 2 | 42 | 44 | 12 |

*APPENDIX C*

**BUSINESS AND OFFICE CLUSTER**

**TABLE C.5–DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)––CONTINUED**

| | | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
| LEARNING ABILITY | MEN | 1265 | 6 | 61 | 29 | 3 |
| | WOMEN | 2195 | 6 | 65 | 25 | 4 |
| | TOTAL | 3460 | 6 | 64 | 26 | 4 |
| LIKING SCHOOL | MEN | 1267. | 9 | 57 | 28 | 5 |
| | WOMEN | 2199 | 7 | 55 | 29 | 9 |
| | TOTAL | 3466 | 7 | 56 | 29 | 7 |
| MATHEMATICAL ABILITY | MEN | 1267 | 19 | 50 | 26 | 5 |
| | WOMEN | 2199 | 34 | 50 | 13 | 3 |
| | TOTAL | 3466 | 29 | 50 | 18 | 3 |
| MECHANICAL ABILITY | MEN | 1267 | 12 | 47 | 35 | 6 |
| | WOMEN | 2197 | 49 | 42 | 8 | 1 |
| | TOTAL | 3464 | 35 | 44 | 18 | 3 |
| PHYSICAL ENERGY | MEN | 1267 | 4 | 45 | 39 | 11 |
| | WOMEN | 2201 | 8 | 61 | 25 | 6 |
| | TOTAL | 3468 | 7 | 55 | 30 | 8 |
| SCIENTIFIC ABILITY | MEN | 1267 | 40 | 49 | 9 | 1 |
| | WOMEN | 2195 | 58 | 37 | 4 | 1 |
| | TOTAL | 3462 | 51 | 42 | 6 | 1 |
| SOCIAL SELF-CONFIDENCE | MEN | 1267 | 17 | 55 | 24 | 4 |
| | WOMEN | 2200 | 14 | 60 | 21 | 5 |
| | TOTAL | 3467 | 15 | 58 | 22 | 5 |
| WORK MOTIVATION | MEN | 1262 | 1 | 35 | 50 | 14 |
| | WOMEN | 2187 | 1 | 36 | 49 | 14 |
| | TOTAL | 3449 | 1 | 36 | 49 | 14 |

*APPENDIX C*

## SCIENCE, ENGINEERING, AND TECHNOLOGY CLUSTER

### TABLE C.1—DISTRIBUTION OF TEST SCORES (IN PERCENTILES)

| | MECHANICAL SKILLS | | | NONVERBAL REASONING | | | CLERICAL SKILLS | | | NUMERICAL COMPUTATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 97 | | 97 | 97 | | 97 | 98 | | 98 | 97 | | 97 | 71-75 |
| 66-70 | 88 | | 88 | 94 | | 94 | 94 | | 94 | 93 | | 93 | 66-70 |
| 61-65 | 73 | | 73 | 83 | | 83 | 88 | | 88 | 82 | | 82 | 61-65 |
| 56-60 | 52 | | 52 | 68 | | 68 | 79 | | 79 | 65 | | 65 | 56-60 |
| 51-55 | 29 | | 29 | 50 | | 50 | 60 | | 60 | 46 | | 46 | 51-55 |
| 46-50 | 14 | | 14 | 30 | | 30 | 39 | | 39 | 29 | | 29 | 46-50 |
| 41-45 | 6 | | 6 | 16 | | 16 | 18 | | 18 | 14 | | 14 | 41-45 |
| 36-40 | 2 | | 2 | 6 | | 6 | 5 | | 5 | 5 | | 5 | 36-40 |
| 31-35 | 1 | | 1 | 2 | | 2 | 2 | | 2 | 2 | | 2 | 31-35 |
| 26-30 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | | 1477 | | | 1477 | | | 1477 | | | 1477 | | MEN |
| WOMEN | | | | | | | | | | | | | WOMEN |
| TOTAL | | 1477 | | | 1477 | | | 1477 | | | 1477 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | M | W | T | |
| MEAN | 57.7 | | 57.7 | 53.1 | | 53.1 | 51.5 | | 51.5 | 53.7 | | 53.7 | MEAN |
| S.D. | 8.8 | | 8.8 | 9.8 | | 9.8 | 9.1 | | 9.1 | 9.6 | | 9.6 | S.D. |

| | MATHEMATICAL REASONING | | | SPACE RELATIONS | | | READING SKILLS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 97 | | 97 | 97 | | 97 | 98 | | 98 | 71-75 |
| 66-70 | 89 | | 89 | 92 | | 92 | 95 | | 95 | 66-70 |
| 61-65 | 75 | | 75 | 82 | | 82 | 84 | | 84 | 61-65 |
| 56-60 | 58 | | 58 | 66 | | 66 | 67 | | 67 | 56-60 |
| 51-55 | 36 | | 36 | 44 | | 44 | 48 | | 48 | 51-55 |
| 46-50 | 17 | | 17 | 24 | | 24 | 28 | | 28 | 46-50 |
| 41-45 | 8 | | 8 | 12 | | 12 | 13 | | 13 | 41-45 |
| 36-40 | 4 | | 4 | 6 | | 6 | 5 | | 5 | 36-40 |
| 31-35 | 2 | | 2 | 3 | | 3 | 2 | | 2 | 31-35 |
| 26-30 | 1 | | 1 | 2 | | 2 | 1 | | 1 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | | 1477 | | | 1477 | | | 1477 | | MEN |
| WOMEN | | | | | | | | | | WOMEN |
| TOTAL | | 1477 | | | 1477 | | | 1477 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 56.0 | | 56.0 | 54.3 | | 54.3 | 53.3 | | 53.3 | MEAN |
| S.D. | 9.2 | | 9.2 | 9.7 | | 9.7 | 9.2 | | 9.2 | S.D. |

*APPENDIX C*
SCIENCE,
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TECHNOLOGY CLUSTER

TABLE C.2–DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)

| | SCIENTIFIC | | | HEALTH | | | ARTISTIC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 96 | | 96 | 99 | | 99 | 99 | | 99 | 71-75 |
| 66-70 | 89 | | 89 | 99 | | 99 | 99 | | 99 | 66-70 |
| 61-65 | 73 | | 73 | 98 | | 98 | 95 | | 95 | 61-65 |
| 56-60 | 53 | | 53 | 92 | | 92 | 86 | | 86 | 56-60 |
| 51-55 | 32 | | 32 | 78 | | 78 | 70 | | 70 | 51-55 |
| 46-50 | 16 | | 16 | 54 | | 54 | 50 | | 50 | 46-50 |
| 41-45 | 6 | | 6 | 29 | | 29 | 27 | | 27 | 41-45 |
| 36-40 | 2 | | 2 | 13 | | 13 | 12 | | 12 | 36-40 |
| 31-35 | 1 | | 1 | 5 | | 5 | 5 | | 5 | 31-35 |
| 26-30 | 1 | | 1 | 2 | | 2 | 1 | | 1 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | 1476 | | | 1475 | | | 1476 | | | MEN |
| WOMEN | | | | | | | | | | WOMEN |
| TOTAL | 1476 | | | 1475 | | | 1476 | | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 57.5 | | 57.5 | 47.1 | | 47.1 | 48.4 | | 48.4 | MEAN |
| S.D. | 8.8 | | 8.8 | 7.8 | | 7.8 | 8.6 | | 8.6 | S.D. |

| | SOCIAL SERV. | | | BUS. CONTACT | | | BUS. MANAG. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 71-75 |
| 66-70 | 99 | | 99 | 99 | | 99 | 97 | | 97 | 66-70 |
| 61-65 | 98 | | 98 | 96 | | 96 | 90 | | 90 | 61-65 |
| 56-60 | 94 | | 94 | 90 | | 90 | 76 | | 76 | 56-60 |
| 51-55 | 83 | | 83 | 75 | | 75 | 57 | | 57 | 51-55 |
| 46-50 | 63 | | 63 | 55 | | 55 | 36 | | 36 | 46-50 |
| 41-45 | 38 | | 38 | 33 | | 33 | 18 | | 18 | 41-45 |
| 36-40 | 18 | | 18 | 15 | | 15 | 7 | | 7 | 36-40 |
| 31-35 | 7 | | 7 | 5 | | 5 | 2 | | 2 | 31-35 |
| 26-30 | 2 | | 2 | 2 | | 2 | 1 | | 1 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | 1476 | | | 1475 | | | 1476 | | | MEN |
| WOMEN | | | | | | | | | | WOMEN |
| TOTAL | 1476 | | | 1475 | | | 1476 | | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 45.3 | | 45.3 | 46.9 | | 46.9 | 51.5 | | 51.5 | MEAN |
| S.D. | 8.1 | | 8.1 | 8.7 | | 8.7 | 8.9 | | 8.9 | S.D. |

TABLE C.2–DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)––CONTINUED

| | BUS. DETAIL | | | HOUSEHOLD | | | CARPENTRY | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 71-75 |
| 66-70 | 99 | | 99 | 99 | | 99 | 96 | | 96 | 66-70 |
| 61-65 | 98 | | 98 | 99 | | 99 | 87 | | 87 | 61-65 |
| 56-60 | 92 | | 92 | 96 | | 96 | 69 | | 69 | 56-60 |
| 51-55 | 79 | | 79 | 85 | | 85 | 45 | | 45 | 51-55 |
| 46-50 | 54 | | 54 | 64 | | 64 | 24 | | 24 | 46-50 |
| 41-45 | 30 | | 30 | 37 | | 37 | 12 | | 12 | 41-45 |
| 36-40 | 13 | | 13 | 18 | | 18 | 4 | | 4 | 36-40 |
| 31-35 | 4 | | 4 | 8 | | 8 | 2 | | 2 | 31-35 |
| 26-30 | 1 | | 1 | 3 | | 3 | 1 | | 1 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | | 1476 | | | 1476 | | | 1476 | | MEN |
| WOMEN | | | | | | | | | | WOMEN |
| TOTAL | | 1476 | | | 1476 | | | 1476 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 46.9 | | 46.9 | 45.0 | | 45.0 | 53.5 | | 53.5 | MEAN |
| S.D. | 7.7 | | 7.7 | 7.6 | | 7.6 | 8.4 | | 8.4 | S.D. |

| | AGRICULTURE | | | MECHANICAL | | | ELECTRICAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 99 | 98 | | 98 | 96 | | 96 | 71-75 |
| 66-70 | 98 | | 98 | 95 | | 95 | 87 | | 87 | 66-70 |
| 61-65 | 91 | | 91 | 86 | | 86 | 67 | | 67 | 61-65 |
| 56-60 | 81 | | 81 | 63 | | 63 | 43 | | 43 | 56-60 |
| 51-55 | 65 | | 65 | 31 | | 31 | 23 | | 23 | 51-55 |
| 46-50 | 42 | | 42 | 11 | | 11 | 9 | | 9 | 46-50 |
| 41-45 | 21 | | 21 | 4 | | 4 | 3 | | 3 | 41-45 |
| 36-40 | 8 | | 8 | 1 | | 1 | 1 | | 1 | 36-40 |
| 31-35 | 3 | | 3 | 1 | | 1 | 1 | | 1 | 31-35 |
| 26-30 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | | 1476 | | | 1476 | | | 1476 | | MEN |
| WOMEN | | | | | | | | | | WOMEN |
| TOTAL | | 1476 | | | 1476 | | | 1476 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 50.2 | | 50.2 | 56.1 | | 56.1 | 59.1 | | 59.1 | MEAN |
| S.D. | 8.8 | | 8.8 | 6.8 | | 6.8 | 8.1 | | 8.1 | S.D. |

*APPENDIX C*

## SCIENCE, ENGINEERING, AND TECHNOLOGY CLUSTER

### TABLE C.3–DISTRIBUTION OF SPECIAL COMPETENCIES

| | SKILLED TRADES | | | HOME ECONOMICS | | | SCIENTIFIC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 9 | | 9 | 223 | | 223 | 29 | | 29 | 0 |
| 1 | 6 | | 6 | 181 | | 181 | 64 | | 64 | 1 |
| 2 | 13 | | 13 | 210 | | 210 | 119 | | 119 | 2 |
| 3 | 32 | | 32 | 178 | | 178 | 181 | | 181 | 3 |
| 4 | 27 | | 27 | 155 | | 155 | 203 | | 203 | 4 |
| 5 | 44 | | 44 | 127 | | 127 | 215 | | 215 | 5 |
| 6 | 53 | | 53 | 100 | | 100 | 216 | | 216 | 6 |
| 7-8 | 157 | | 157 | 131 | | 131 | 294 | | 294 | 7-8 |
| 9-10 | 184 | | 184 | 62 | | 62 | 95 | | 95 | 9-10 |
| 11-12 | 206 | | 204 | 25 | | 25 | | | | 11-12 |
| 13-14 | 211 | | 211 | 5 | | 5 | | | | 13-14 |
| OVER 14 | 509 | | 509 | | | | | | | OVER 14 |
| N-CT | 1449 | | 1449 | 1397 | | 1397 | 1416 | | 1416 | N-CT |
| MEAN | 12.3 | | 12.3 | 3.5 | | 3.5 | 5.0 | | 5.0 | MEAN |
| S.D. | 4.8 | | 4.8 | 2.9 | | 2.9 | 2.3 | | 2.3 | S.D. |

| | SPORTS | | | ARTISTIC | | | COMMUNITY SERV. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 25 | | 25 | 206 | | 206 | 713 | | 713 | 0 |
| 1 | 81 | | 81 | 217 | | 217 | 250 | | 250 | 1 |
| 2 | 122 | | 122 | 234 | | 234 | 178 | | 178 | 2 |
| 3 | 153 | | 153 | 216 | | 216 | 128 | | 128 | 3 |
| 4 | 192 | | 192 | 178 | | 178 | 66 | | 66 | 4 |
| 5 | 185 | | 185 | 114 | | 114 | 29 | | 29 | 5 |
| 6 | 179 | | 179 | 82 | | 82 | 25 | | 25 | 6 |
| 7-8 | 296 | | 296 | 94 | | 94 | 18 | | 18 | 7-8 |
| 9-10 | 137 | | 137 | 35 | | 35 | 8 | | 8 | 9-10 |
| 11-12 | 36 | | 36 | 13 | | 13 | | | | 11-12 |
| 13-14 | | | | 2 | | 2 | | | | 13-14 |
| OVER 14 | | | | 2 | | 2 | | | | OVER 14 |
| N-CT | 1406 | | 1406 | 1393 | | 1393 | 1415 | | 1415 | N-CT |
| MEAN | 5.3 | | 5.3 | 3.1 | | 3.1 | 1.2 | | 1.2 | MEAN |
| S.D. | 2.6 | | 2.6 | 2.5 | | 2.5 | 1.7 | | 1.7 | S.D. |

| | BUSINESS | | | LEADERSHIP | | | CLERICAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 13 | | 13 | 235 | | 235 | 137 | | 137 | 0 |
| 1 | 74 | | 74 | 222 | | 222 | 217 | | 217 | 1 |
| 2 | 152 | | 152 | 212 | | 212 | 239 | | 239 | 2 |
| 3 | 210 | | 210 | 197 | | 197 | 203 | | 203 | 3 |
| 4 | 241 | | 241 | 157 | | 157 | 189 | | 189 | 4 |
| 5 | 199 | | 199 | 114 | | 114 | 128 | | 128 | 5 |
| 6 | 205 | | 205 | 87 | | 87 | 94 | | 94 | 6 |
| 7-8 | 215 | | 215 | 85 | | 85 | 110 | | 110 | 7-8 |
| 9-10 | 68 | | 68 | 38 | | 38 | 49 | | 49 | 9-10 |
| 11-12 | 20 | | 20 | 12 | | 12 | 17 | | 17 | 11-12 |
| 13-14 | 2 | | 2 | | | | 6 | | 6 | 13-14 |
| OVER 14 | 3 | | 3 | | | | 3 | | 3 | OVER 14 |
| N-CT | 1402 | | 1402 | 1359 | | 1359 | 1392 | | 1392 | N-CT |
| MEAN | 4.8 | | 4.8 | 3.0 | | 3.0 | 3.5 | | 3.5 | MEAN |
| S.D. | 2.4 | | 2.4 | 2.5 | | 2.5 | 2.7 | | 2.7 | S.D. |

*APPENDIX C*
SCIENCE,
ENGINEERING, AND
TECHNOLOGY CLUSTER

TABLE C.4–DISTRIBUTION OF HIGH SCHOOL GRADES

MEN STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 74 | 5 | 132 | 9 | 144 | 10 | 128 | 9 | 96 | 6 | 367 | 25 |
| B | 427 | 29 | 404 | 27 | 502 | 34 | 460 | 31 | 303 | 21 | 390 | 26 |
| C | 758 | 51 | 657 | 44 | 646 | 44 | 626 | 42 | 306 | 21 | 177 | 12 |
| D | 170 | 12 | 192 | 13 | 104 | 7 | 116 | 8 | 44 | 3 | 14 | 1 |
| F | 17 | 1 | 43 | 3 | 6 | | 14 | 1 | 3 | | 2 | |
| NOT TAKEN | 31 | 2 | 49 | 3 | 75 | 5 | 133 | 9 | 725 | 49 | 527 | 36 |
| MEAN | 2,26 | | 2,27 | | 2,48 | | 2,43 | | 2,59 | | 3,16 | |
| S.D. | .774 | | .913 | | .793 | | .819 | | .799 | | .790 | |
| NO. STUDENTS | 1,477 | | 1,477 | | 1,477 | | 1,477 | | 1,477 | | 1,477 | |

WOMEN STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | | | | | | | | | | | | |
| B | | | | | | | | | | | | |
| C | | | | | | | | | | | | |
| D | | | | | | | | | | | | |
| F | | | | | | | | | | | | |
| NOT TAKEN | | | | | | | | | | | | |
| MEAN | | | | | | | | | | | | |
| S.D. | | | | | | | | | | | | |
| NO. STUDENTS | | | | | | | | | | | | |

TOTAL STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 74 | 5 | 132 | 9 | 144 | 10 | 128 | 9 | 96 | 6 | 367 | 25 |
| B | 427 | 29 | 404 | 27 | 502 | 34 | 460 | 31 | 303 | 21 | 390 | 26 |
| C | 758 | 51 | 657 | 44 | 646 | 44 | 626 | 42 | 306 | 21 | 177 | 12 |
| D | 170 | 12 | 192 | 13 | 104 | 7 | 116 | 8 | 44 | 3 | 14 | 1 |
| F | 17 | 1 | 43 | 3 | 6 | | 14 | 1 | 3 | | 2 | |
| NOT TAKEN | 31 | 2 | 49 | 3 | 75 | 5 | 133 | 9 | 725 | 49 | 527 | 36 |
| MEAN | 2,26 | | 2,27 | | 2,48 | | 2,43 | | 2,59 | | 3,16 | |
| S.D. | .774 | | .913 | | .793 | | .819 | | .799 | | .790 | |
| NO. STUDENTS | 1,477 | | 1,477 | | 1,477 | | 1,477 | | 1,477 | | 1,477 | |

*APPENDIX C*
**SCIENCE, ENGINEERING, AND TECHNOLOGY CLUSTER**

**TABLE C.5—DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)**

| | | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
| ACADEMIC MOTIVATION | MEN | 1471 | 4 | 53 | 36 | 7 |
| | WOMEN | | | | | |
| | TOTAL | 1471 | 4 | 53 | 36 | 7 |
| ADAPTABILITY | MEN | 1472 | 4 | 50 | 39 | 6 |
| | WOMEN | | | | | |
| | TOTAL | 1472 | 4 | 50 | 39 | 6 |
| ARTISTIC ABILITY | MEN | 1472 | 35 | 40 | 21 | 4 |
| | WOMEN | | | | | |
| | TOTAL | 1472 | 35 | 40 | 21 | 4 |
| CLERICAL ABILITY | MEN | 1469 | 28 | 55 | 16 | 2 |
| | WOMEN | | | | | |
| | TOTAL | 1469 | 28 | 55 | 16 | 2 |
| COMMON SENSE | MEN | 1473 | 1 | 39 | 47 | 13 |
| | WOMEN | | | | | |
| | TOTAL | 1473 | 1 | 39 | 47 | 13 |
| COPING ABILITY | MEN | 1472 | 4 | 56 | 34 | 5 |
| | WOMEN | | | | | |
| | TOTAL | 1472 | 4 | 56 | 34 | 5 |
| ENGLISH ABILITY | MEN | 1472 | 25 | 56 | 17 | 2 |
| | WOMEN | | | | | |
| | TOTAL | 1472 | 25 | 56 | 17 | 2 |
| GETTING ALONG | MEN | 1475 | 3 | 42 | 45 | 10 |
| | WOMEN | | | | | |
| | TOTAL | 1475 | 3 | 42 | 45 | 10 |

TABLE C.5—DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)—CONTINUED

| | | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
| LEARNING ABILITY | MEN | 1475 | 7 | 60 | 29 | 4 |
| | WOMEN | | | | | |
| | TOTAL | 1475 | 7 | 60 | 29 | 4 |
| LIKING SCHOOL | MEN | 1473 | 8 | 54 | 32 | 6 |
| | WOMEN | | | | | |
| | TOTAL | 1473 | 8 | 54 | 32 | 6 |
| MATHEMATICAL ABILITY | MEN | 1474 | 16 | 47 | 31 | 6 |
| | WOMEN | | | | | |
| | TOTAL | 1474 | 16 | 47 | 31 | 6 |
| MECHANICAL ABILITY | MEN | 1474 | 3 | 30 | 48 | 18 |
| | WOMEN | | | | | |
| | TOTAL | 1474 | 3 | 30 | 48 | 18 |
| PHYSICAL ENERGY | MEN | 1475 | 4 | 42 | 42 | 13 |
| | WOMEN | | | | | |
| | TOTAL | 1475 | 4 | 42 | 42 | 13 |
| SCIENTIFIC ABILITY | MEN | 1473 | 20 | 55 | 21 | 4 |
| | WOMEN | | | | | |
| | TOTAL | 1473 | 20 | 55 | 21 | 4 |
| SOCIAL SELF-CONFIDENCE | MEN | 1475 | 20 | 56 | 20 | 3 |
| | WOMEN | | | | | |
| | TOTAL | 1475 | 20 | 56 | 20 | 3 |
| WORK MOTIVATION | MEN | 1467 | 1 | 35 | 51 | 12 |
| | WOMEN | | | | | |
| | TOTAL | 1467 | 1 | 35 | 51 | 12 |

*APPENDIX C*

## TRADE AND INDUSTRIAL CLUSTER

### TABLE C.1–DISTRIBUTION OF TEST SCORES (IN PERCENTILES)

| | MECHANICAL SKILLS | | | NONVERBAL REASONING | | | CLERICAL SKILLS | | | NUMERICAL COMPUTATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 99 | 99 | | 99 | 98 | | 98 | 99 | | 99 | 71-75 |
| 66-70 | 94 | | 94 | 97 | | 97 | 95 | | 95 | 97 | | 97 | 66-70 |
| 61-65 | 84 | | 84 | 91 | | 91 | 91 | | 91 | 91 | | 91 | 61-65 |
| 56-60 | 67 | | 68 | 82 | | 82 | 83 | | 83 | 81 | | 82 | 56-60 |
| 51-55 | 46 | | 47 | 66 | | 66 | 69 | | 69 | 65 | | 65 | 51-55 |
| 46-50 | 28 | | 29 | 46 | | 45 | 50 | | 50 | 47 | | 47 | 46-50 |
| 41-45 | 14 | | 15 | 27 | | 27 | 31 | | 31 | 29 | | 29 | 41-45 |
| 36-40 | 6 | | 7 | 13 | | 13 | 14 | | 15 | 14 | | 14 | 36-40 |
| 31-35 | 3 | | 3 | 5 | | 5 | 6 | | 6 | 7 | | 7 | 31-35 |
| 26-30 | 1 | | 1 | 1 | | 1 | 2 | | 2 | 2 | | 2 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | | 4244 | | | 4244 | | | 4244 | | | 4244 | | MEN |
| WOMEN | | 128 | | | 128 | | | 128 | | | 128 | | WOMEN |
| TOTAL | | 4372 | | | 4372 | | | 4372 | | | 4372 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | M | W | T | |
| MEAN | 53.7 | | 53.4 | 49.0 | | 49.1 | 48.7 | | 48.7 | 48.6 | | 48.6 | MEAN |
| S.D. | 9.5 | | 9.5 | 9.7 | | 9.7 | 10.3 | | 10.3 | 9.9 | | 9.9 | S.D. |

| | MATHEMATICAL REASONING | | | SPACE RELATIONS | | | READING SKILLS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 99 | 98 | | 98 | 99 | | 99 | 71-75 |
| 66-70 | 96 | | 96 | 94 | | 94 | 97 | | 97 | 66-70 |
| 61-65 | 90 | | 90 | 86 | | 86 | 92 | | 92 | 61-65 |
| 56-60 | 80 | | 80 | 72 | | 73 | 82 | | 82 | 56-60 |
| 51-55 | 62 | | 62 | 53 | | 53 | 68 | | 68 | 51-55 |
| 46-50 | 39 | | 39 | 33 | | 34 | 49 | | 49 | 46-50 |
| 41-45 | 24 | | 24 | 19 | | 19 | 29 | | 29 | 41-45 |
| 36-40 | 15 | | 15 | 11 | | 11 | 15 | | 15 | 36-40 |
| 31-35 | 7 | | 7 | 6 | | 6 | 6 | | 6 | 31-35 |
| 26-30 | 4 | | 4 | 3 | | 3 | 2 | | 2 | 26-30 |
| 20-25 | 2 | | 2 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | | 4244 | | | 4244 | | | 4244 | | MEN |
| WOMEN | | 128 | | | 128 | | | 128 | | WOMEN |
| TOTAL | | 4372 | | | 4372 | | | 4372 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 49.6 | | 49.5 | 51.8 | | 51.7 | 48.3 | | 48.3 | MEAN |
| S.D. | 10.2 | | 10.2 | 10.7 | | 10.7 | 9.9 | | 9.8 | S.D. |

*APPENDIX C*

## TRADE AND INDUSTRIAL CLUSTER

### TABLE C.2–DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)

| | SCIENTIFIC | | | HEALTH | | | ARTISTIC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 71-75 |
| 66-70 | 96 | | 96 | 99 | | 99 | 98 | | 98 | 66-70 |
| 61-65 | 89 | | 89 | 99 | | 98 | 95 | | 94 | 61-65 |
| 56-60 | 77 | | 77 | 94 | | 94 | 87 | | 86 | 56-60 |
| 51-55 | 57 | | 58 | 84 | | 84 | 75 | | 74 | 51-55 |
| 46-50 | 37 | | 38 | 64 | | 63 | 57 | | 56 | 46-50 |
| 41-45 | 20 | | 21 | 40 | | 39 | 34 | | 34 | 41-45 |
| 36-40 | 9 | | 10 | 20 | | 20 | 17 | | 17 | 36-40 |
| 31-35 | 4 | | 4 | 9 | | 9 | 8 | | 8 | 31-35 |
| 26-30 | 2 | | 2 | 4 | | 4 | 3 | | 3 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | | 4233 | | | 4231 | | | 4234 | | MEN |
| WOMEN | | 128 | | | 128 | | | 128 | | WOMEN |
| TOTAL | | 4361 | | | 4359 | | | 4362 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 51.4 | | 51.2 | 44.9 | | 45.0 | 46.8 | | 47.0 | MEAN |
| S.D. | 9.4 | | 9.5 | 8.5 | | 8.5 | 9.4 | | 9.6 | S.D. |

| | SOCIAL SERV. | | | BUS. CONTACT | | | BUS. MANAG. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 71-75 |
| 66-70 | 99 | | 99 | 98 | | 98 | 96 | | 97 | 66-70 |
| 61-65 | 98 | | 97 | 95 | | 95 | 90 | | 90 | 61-65 |
| 56-60 | 93 | | 92 | 89 | | 89 | 78 | | 78 | 56-60 |
| 51-55 | 83 | | 82 | 75 | | 75 | 61 | | 61 | 51-55 |
| 46-50 | 66 | | 65 | 56 | | 55 | 40 | | 40 | 46-50 |
| 41-45 | 43 | | 42 | 36 | | 36 | 21 | | 22 | 41-45 |
| 36-40 | 23 | | 23 | 18 | | 18 | 9 | | 9 | 36-40 |
| 31-35 | 10 | | 10 | 7 | | 7 | 3 | | 3 | 31-35 |
| 26-30 | 3 | | 3 | 3 | | 2 | 1 | | 1 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | | 4232 | | | 4233 | | | 4232 | | MEN |
| WOMEN | | 128 | | | 128 | | | 128 | | WOMEN |
| TOTAL | | 4360 | | | 4361 | | | 4360 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 44.5 | | 44.8 | 46.5 | | 46.6 | 50.7 | | 50.6 | MEAN |
| S.D. | 8.9 | | 9.0 | 9.6 | | 9.6 | 9.4 | | 9.4 | S.D. |

## TRADE AND INDUSTRIAL CLUSTER

### TABLE C.2–DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)––CONTINUED

| SCORE | BUS. DETAIL M | BUS. DETAIL W | BUS. DETAIL T | HOUSEHOLD M | HOUSEHOLD W | HOUSEHOLD T | CARPENTRY M | CARPENTRY W | CARPENTRY T | SCORE |
|---|---|---|---|---|---|---|---|---|---|---|
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 99 | 99 | | 99 | 97 | | 97 | 71-75 |
| 66-70 | 99 | | 99 | 99 | | 99 | 92 | | 92 | 66-70 |
| 61-65 | 97 | | 96 | 98 | | 97 | 81 | | 81 | 61-65 |
| 56-60 | 91 | | 90 | 93 | | 92 | 62 | | 62 | 56-60 |
| 51-55 | 78 | | 77 | 81 | | 79 | 39 | | 40 | 51-55 |
| 46-50 | 56 | | 56 | 59 | | 57 | 21 | | 22 | 46-50 |
| 41-45 | 34 | | 34 | 34 | | 33 | 10 | | 11 | 41-45 |
| 36-40 | 17 | | 17 | 18 | | 17 | 3 | | 4 | 36-40 |
| 31-35 | 7 | | 7 | 8 | | 7 | 1 | | 1 | 31-35 |
| 26-30 | 3 | | 3 | 3 | | 3 | 1 | | 1 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | 4233 | | | 4232 | | | 4232 | | | MEN |
| WOMEN | 128 | | | 128 | | | 128 | | | WOMEN |
| TOTAL | 4361 | | | 4360 | | | 4360 | | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 46.3 | | 46.4 | 46.0 | | 46.3 | 55.0 | | 54.8 | MEAN |
| S.D. | 8.9 | | 8.9 | 8.3 | | 8.5 | 9.0 | | 9.1 | S.D. |

| SCORE | AGRICULTURE M | AGRICULTURE W | AGRICULTURE T | MECHANICAL M | MECHANICAL W | MECHANICAL T | ELECTRICAL M | ELECTRICAL W | ELECTRICAL T | SCORE |
|---|---|---|---|---|---|---|---|---|---|---|
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 99 | 97 | | 97 | 98 | | 98 | 71-75 |
| 66-70 | 96 | | 96 | 91 | | 91 | 93 | | 93 | 66-70 |
| 61-65 | 87 | | 87 | 77 | | 78 | 81 | | 82 | 61-65 |
| 56-60 | 73 | | 74 | 49 | | 50 | 63 | | 64 | 56-60 |
| 51-55 | 55 | | 56 | 20 | | 22 | 39 | | 41 | 51-55 |
| 46-50 | 33 | | 34 | 6 | | 8 | 18 | | 19 | 46-50 |
| 41-45 | 16 | | 17 | 2 | | 3 | 7 | | 8 | 41-45 |
| 36-40 | 7 | | 7 | 1 | | 1 | 2 | | 3 | 36-40 |
| 31-35 | 2 | | 3 | 1 | | 1 | 1 | | 1 | 31-35 |
| 26-30 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | 4232 | | | 4232 | | | 4232 | | | MEN |
| WOMEN | 128 | | | 128 | | | 128 | | | WOMEN |
| TOTAL | 4360 | | | 4360 | | | 4360 | | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 52.1 | | 52.0 | 58.3 | | 57.9 | 55.2 | | 54.9 | MEAN |
| S.D. | 9.1 | | 9.2 | 6.8 | | 7.2 | 8.3 | | 8.5 | S.D. |

*APPENDIX C*

## TRADE AND INDUSTRIAL CLUSTER

### TABLE C.3–DISTRIBUTION OF SPECIAL COMPETENCIES

| SCORE | SKILLED TRADES M | W | T | HOME ECONOMICS M | W | T | SCIENTIFIC M | W | T | SCORE |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 14 | | 35 | 540 | | 541 | 265 | | 276 | 0 |
| 1 | 13 | | 31 | 444 | | 446 | 381 | | 392 | 1 |
| 2 | 33 | | 45 | 586 | | 590 | 615 | | 633 | 2 |
| 3 | 80 | | 95 | 475 | | 477 | 700 | | 726 | 3 |
| 4 | 93 | | 110 | 440 | | 441 | 593 | | 614 | 4 |
| 5 | 122 | | 130 | 404 | | 415 | 496 | | 509 | 5 |
| 6 | 159 | | 162 | 298 | | 308 | 358 | | 366 | 6 |
| 7-8 | 432 | | 440 | 420 | | 440 | 395 | | 404 | 7-8 |
| 9-10 | 523 | | 530 | 205 | | 232 | 132 | | 134 | 9-10 |
| 11-12 | 586 | | 588 | 99 | | 120 | | | | 11-12 |
| 13-14 | 626 | | 627 | 27 | | 47 | | | | 13-14 |
| OVER 14 | 1455 | | 1459 | | | | | | | OVER 14 |
| N-CT | 4136 | 116 | 4252 | 3938 | 119 | 4057 | 3935 | 119 | 4054 | N-CT |
| MEAN | 12.3 | | 12.0 | 3.8 | | 4.0 | 3.8 | | 3.8 | MEAN |
| S.D. | 4.7 | | 4.8 | 3.0 | | 3.1 | 2.3 | | 2.3 | S.D. |

| SCORE | SPORTS M | W | T | ARTISTIC M | W | T | COMMUNITY SERV. M | W | T | SCORE |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 118 | | 127 | 695 | | 698 | 1992 | | 2024 | 0 |
| 1 | 210 | | 233 | 596 | | 600 | 666 | | 690 | 1 |
| 2 | 327 | | 344 | 629 | | 636 | 509 | | 529 | 2 |
| 3 | 495 | | 518 | 534 | | 540 | 325 | | 340 | 3 |
| 4 | 547 | | 555 | 408 | | 420 | 174 | | 185 | 4 |
| 5 | 553 | | 561 | 309 | | 320 | 114 | | 121 | 5 |
| 6 | 460 | | 466 | 211 | | 223 | 72 | | 77 | 6 |
| 7-8 | 718 | | 723 | 268 | | 287 | 74 | | 82 | 7-8 |
| 9-10 | 374 | | 379 | 122 | | 146 | 34 | | 34 | 9-10 |
| 11-12 | 120 | | 122 | 62 | | 74 | | | | 11-12 |
| 13-14 | | | | 22 | | 29 | | | | 13-14 |
| OVER 14 | | | | 12 | | 13 | | | | OVER 14 |
| N-CT | 3922 | 106 | 4028 | 3868 | 118 | 3986 | 3960 | 122 | 4082 | N-CT |
| MEAN | 5.2 | | 5.1 | 3.2 | | 3.3 | 1.3 | | 1.4 | MEAN |
| S.D. | 2.7 | | 2.7 | 2.9 | | 3.0 | 1.9 | | 1.9 | S.D. |

| SCORE | BUSINESS M | W | T | LEADERSHIP M | W | T | CLERICAL M | W | T | SCORE |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 63 | | 71 | 723 | | 737 | 478 | | 485 | 0 |
| 1 | 221 | | 228 | 602 | | 606 | 618 | | 631 | 1 |
| 2 | 423 | | 441 | 611 | | 636 | 697 | | 715 | 2 |
| 3 | 592 | | 620 | 484 | | 497 | 561 | | 576 | 3 |
| 4 | 599 | | 622 | 373 | | 383 | 433 | | 449 | 4 |
| 5 | 617 | | 629 | 288 | | 299 | 321 | | 331 | 5 |
| 6 | 479 | | 488 | 180 | | 189 | 210 | | 223 | 6 |
| 7-8 | 527 | | 534 | 251 | | 267 | 250 | | 261 | 7-8 |
| 9-10 | 225 | | 228 | 120 | | 130 | 124 | | 133 | 9-10 |
| 11-12 | 60 | | 63 | 62 | | 65 | 47 | | 52 | 11-12 |
| 13-14 | 11 | | 11 | | | | 17 | | 18 | 13-14 |
| OVER 14 | 28 | | 30 | | | | 10 | | 11 | OVER 14 |
| N-CT | 3845 | 120 | 3965 | 3694 | 115 | 3809 | 3766 | 119 | 3885 | N-CT |
| MEAN | 4.8 | | 4.8 | 3.0 | | 3.0 | 3.2 | | 3.3 | MEAN |
| S.D. | 2.6 | | 2.6 | 2.7 | | 2.7 | 2.7 | | 2.7 | S.D. |

*APPENDIX C*

## TRADE AND INDUSTRIAL CLUSTER

### TABLE C.4–DISTRIBUTION OF HIGH SCHOOL GRADES

MEN STUDENTS

| | ENGLISH FREQ | ENGLISH PC | MATH FREQ | MATH PC | SOC. S. FREQ | SOC. S. PC | N. SCI. FREQ | N. SCI. PC | BUSINESS FREQ | BUSINESS PC | VOCATIONAL FREQ | VOCATIONAL PC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 121 | 3 | 273 | 6 | 235 | 6 | 172 | 4 | 216 | 5 | 998 | 24 |
| B | 884 | 21 | 922 | 22 | 1108 | 26 | 980 | 23 | 740 | 17 | 1303 | 31 |
| C | 2238 | 53 | 1934 | 46 | 1916 | 45 | 1819 | 43 | 997 | 23 | 678 | 16 |
| D | 739 | 17 | 712 | 17 | 519 | 12 | 561 | 13 | 222 | 5 | 58 | 1 |
| F | 64 | 2 | 99 | 2 | 42 | 1 | 57 | 1 | 36 | 1 | 8 | |
| NOT TAKEN | 198 | 5 | 304 | 7 | 424 | 10 | 655 | 15 | 2033 | 48 | 1199 | 28 |
| MEAN | 2,06 | | 2,14 | | 2,26 | | 2,18 | | 2,40 | | 3,06 | |
| S.D. | .762 | | .879 | | .807 | | .807 | | .856 | | .804 | |
| NO. STUDENTS | 4,244 | | 4,244 | | 4,244 | | 4,244 | | 4,244 | | 4,244 | |

WOMEN STUDENTS

| | ENGLISH FREQ | ENGLISH PC | MATH FREQ | MATH PC | SOC. S. FREQ | SOC. S. PC | N. SCI. FREQ | N. SCI. PC | BUSINESS FREQ | BUSINESS PC | VOCATIONAL FREQ | VOCATIONAL PC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | | | | | |
| B | | | | | | | | | | | | |
| C | | | | | | | | | | | | |
| D | | | | | | | | | | | | |
| F | | | | | | | | | | | | |
| NOT TAKEN | | | | | | | | | | | | |
| MEAN | | | | | | | | | | | | |
| S.D. | | | | | | | | | | | | |
| NO. STUDENTS | 128 | | 128 | | 128 | | 128 | | 128 | | 128 | |

TOTAL STUDENTS

| | ENGLISH FREQ | ENGLISH PC | MATH FREQ | MATH PC | SOC. S. FREQ | SOC. S. PC | N. SCI. FREQ | N. SCI. PC | BUSINESS FREQ | BUSINESS PC | VOCATIONAL FREQ | VOCATIONAL PC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 136 | 3 | 282 | 6 | 249 | 6 | 183 | 4 | 233 | 5 | 1034 | 24 |
| B | 947 | 22 | 954 | 22 | 1164 | 27 | 1020 | 23 | 778 | 18 | 1342 | 31 |
| C | 2277 | 52 | 1989 | 45 | 1957 | 45 | 1870 | 43 | 1023 | 23 | 691 | 16 |
| D | 744 | 17 | 738 | 17 | 525 | 12 | 575 | 13 | 230 | 5 | 60 | 1 |
| F | 66 | 2 | 100 | 2 | 43 | 1 | 59 | 1 | 36 | 1 | 8 | |
| NOT TAKEN | 202 | 5 | 309 | 7 | 434 | 10 | 665 | 15 | 2072 | 47 | 1237 | 28 |
| MEAN | 2,08 | | 2,14 | | 2,27 | | 2,19 | | 2,41 | | 3,06 | |
| S.D. | .770 | | .879 | | .809 | | .810 | | .859 | | .804 | |
| NO. STUDENTS | 4,372 | | 4,372 | | 4,372 | | 4,372 | | 4,372 | | 4,372 | |

*APPENDIX C*

## TRADE AND INDUSTRIAL CLUSTER

### TABLE C.5—DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)

| | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
| ACADEMIC MOTIVATION | MEN | 4237 | 7 | 60 | 27 | 6 |
| | WOMEN | 128 | | | | |
| | TOTAL | 4365 | 7 | 60 | 27 | 6 |
| ADAPTABILITY | MEN | 4230 | 5 | 57 | 32 | 6 |
| | WOMEN | 127 | | | | |
| | TOTAL | 4357 | 5 | 57 | 32 | 6 |
| ARTISTIC ABILITY | MEN | 4225 | 41 | 37 | 18 | 4 |
| | WOMEN | 128 | | | | |
| | TOTAL | 4353 | 40 | 37 | 18 | 4 |
| CLERICAL ABILITY | MEN | 4205 | 31 | 54 | 13 | 2 |
| | WOMEN | 127 | | | | |
| | TOTAL | 4332 | 31 | 54 | 13 | 2 |
| COMMON SENSE | MEN | 4229 | 2 | 45 | 42 | 11 |
| | WOMEN | 127 | | | | |
| | TOTAL | 4356 | 2 | 45 | 42 | 11 |
| COPING ABILITY | MEN | 4230 | 7 | 63 | 26 | 4 |
| | WOMEN | 127 | | | | |
| | TOTAL | 4357 | 7 | 63 | 26 | 4 |
| ENGLISH ABILITY | MEN | 4225 | 29 | 56 | 12 | 2 |
| | WOMEN | 127 | | | | |
| | TOTAL | 4352 | 29 | 56 | 12 | 2 |
| GETTING ALONG | MEN | 4227 | 3 | 44 | 41 | 12 |
| | WOMEN | 128 | | | | |
| | TOTAL | 4355 | 3 | 44 | 41 | 12 |

**TABLE C.5—DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)—CONTINUED**

| | | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
| LEARNING ABILITY | MEN | 4233 | 8 | 64 | 24 | 4 |
| | WOMEN | 128 | | | | |
| | TOTAL | 4361 | 8 | 64 | 24 | 4 |
| LIKING SCHOOL | MEN | 4237 | 13 | 56 | 25 | 5 |
| | WOMEN | 128 | | | | |
| | TOTAL | 4365 | 13 | 56 | 26 | 5 |
| MATHEMATICAL ABILITY | MEN | 4236 | 23 | 54 | 20 | 4 |
| | WOMEN | 128 | | | | |
| | TOTAL | 4364 | 24 | 53 | 20 | 3 |
| MECHANICAL ABILITY | MEN | 4236 | 3 | 33 | 49 | 15 |
| | WOMEN | 127 | | | | |
| | TOTAL | 4363 | 3 | 34 | 48 | 15 |
| PHYSICAL ENERGY | MEN | 4234 | 5 | 44 | 38 | 12 |
| | WOMEN | 128 | | | | |
| | TOTAL | 4362 | 5 | 44 | 38 | 12 |
| SCIENTIFIC ABILITY | MEN | 4230 | 41 | 47 | 11 | 2 |
| | WOMEN | 128 | | | | |
| | TOTAL | 4358 | 41 | 47 | 10 | 2 |
| SOCIAL SELF-CONFIDENCE | MEN | 4229 | 22 | 57 | 18 | 4 |
| | WOMEN | 128 | | | | |
| | TOTAL | 4357 | 21 | 57 | 18 | 4 |
| WORK MOTIVATION | MEN | 4215 | 1 | 39 | 48 | 12 |
| | WOMEN | 126 | | | | |
| | TOTAL | 4341 | 1 | 39 | 48 | 12 |

*APPENDIX C*

## SOCIAL SCIENCE AND PUBLIC SERVICE CLUSTER

### TABLE C.1—DISTRIBUTION OF TEST SCORES (IN PERCENTILES)

| | MECHANICAL SKILLS | | | NONVERBAL REASONING | | | CLERICAL SKILLS | | | NUMERICAL COMPUTATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 99 | 99 | 98 | 98 | 98 | 97 | 98 | 98 | 97 | 99 | 98 | 71-75 |
| 66-70 | 96 | 99 | 98 | 95 | 96 | 95 | 92 | 94 | 93 | 95 | 97 | 96 | 66-70 |
| 61-65 | 88 | 99 | 93 | 87 | 88 | 88 | 86 | 89 | 88 | 89 | 93 | 91 | 61-65 |
| 56-60 | 70 | 96 | 83 | 77 | 77 | 77 | 77 | 80 | 78 | 79 | 84 | 81 | 56-60 |
| 51-55 | 46 | 88 | 67 | 59 | 59 | 59 | 60 | 62 | 61 | 64 | 68 | 66 | 51-55 |
| 46-50 | 28 | 71 | 49 | 38 | 37 | 38 | 41 | 43 | 42 | 47 | 49 | 48 | 46-50 |
| 41-45 | 15 | 46 | 30 | 22 | 21 | 22 | 22 | 24 | 23 | 26 | 29 | 28 | 41-45 |
| 36-40 | 5 | 21 | 13 | 11 | 9 | 10 | 9 | 10 | 9 | 10 | 14 | 12 | 36-40 |
| 31-35 | 2 | 7 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 7 | 6 | 31-35 |
| 26-30 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 586 | | | 586 | | | 586 | | | 586 | | MEN |
| WOMEN | | 577 | | | 577 | | | 577 | | | 577 | | WOMEN |
| TOTAL | | 1163 | | | 1163 | | | 1163 | | | 1163 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | M | W | T | |
| MEAN | 53.2 | 44.3 | 48.8 | 50.7 | 50.9 | 50.8 | 51.1 | 50.4 | 50.8 | 49.7 | 48.2 | 49.0 | MEAN |
| S.D. | 8.8 | 7.4 | 9.3 | 10.3 | 9.6 | 10.0 | 10.4 | 10.0 | 10.2 | 10.1 | 9.5 | 9.8 | S.D. |

| | MATHEMATICAL REASONING | | | SPACE RELATIONS | | | READING SKILLS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 99 | 99 | 97 | 99 | 99 | 98 | 99 | 98 | 71-75 |
| 66-70 | 94 | 99 | 96 | 92 | 99 | 96 | 94 | 96 | 95 | 66-70 |
| 61-65 | 86 | 96 | 91 | 85 | 97 | 91 | 84 | 89 | 87 | 61-65 |
| 56-60 | 74 | 89 | 81 | 70 | 90 | 80 | 69 | 77 | 73 | 56-60 |
| 51-55 | 53 | 74 | 63 | 51 | 73 | 62 | 52 | 62 | 57 | 51-55 |
| 46-50 | 31 | 51 | 41 | 32 | 50 | 41 | 31 | 45 | 38 | 46-50 |
| 41-45 | 16 | 32 | 24 | 17 | 30 | 23 | 15 | 24 | 20 | 41-45 |
| 36-40 | 8 | 20 | 14 | 9 | 16 | 12 | 7 | 10 | 8 | 36-40 |
| 31-35 | 3 | 9 | 6 | 5 | 8 | 6 | 3 | 3 | 3 | 31-35 |
| 26-30 | 1 | 5 | 3 | 2 | 4 | 3 | 1 | 1 | 1 | 26-30 |
| 20-25 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 586 | | | 586 | | | 586 | | MEN |
| WOMEN | | 577 | | | 577 | | | 577 | | WOMEN |
| TOTAL | | 1163 | | | 1163 | | | 1163 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 52.1 | 46.7 | 49.4 | 52.5 | 47.2 | 49.9 | 52.5 | 50.0 | 51.3 | MEAN |
| S.D. | 9.5 | 9.4 | 9.8 | 10.5 | 8.9 | 10.1 | 9.8 | 9.7 | 9.8 | S.D. |

*APPENDIX C*
**SOCIAL SCIENCE AND PUBLIC SERVICE CLUSTER**

**TABLE C.2–DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)**

| | SCIENTIFIC | | | HEALTH | | | ARTISTIC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 98 | 98 | 71-75 |
| 66-70 | 97 | 99 | 98 | 99 | 98 | 99 | 97 | 93 | 95 | 66-70 |
| 61-65 | 91 | 98 | 94 | 98 | 91 | 95 | 91 | 83 | 87 | 61-65 |
| 56-60 | 78 | 94 | 86 | 89 | 76 | 83 | 80 | 65 | 72 | 56-60 |
| 51-55 | 59 | 82 | 71 | 73 | 55 | 64 | 66 | 44 | 55 | 51-55 |
| 46-50 | 38 | 66 | 52 | 48 | 31 | 39 | 46 | 26 | 36 | 46-50 |
| 41-45 | 20 | 47 | 34 | 24 | 13 | 19 | 24 | 13 | 18 | 41-45 |
| 36-40 | 10 | 26 | 18 | 10 | 5 | 8 | 10 | 6 | 8 | 36-40 |
| 31-35 | 4 | 13 | 8 | 3 | 2 | 3 | 4 | 2 | 3 | 31-35 |
| 26-30 | 1 | 6 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 586 | | | 586 | | | 586 | | MEN |
| WOMEN | | 576 | | | 576 | | | 576 | | WOMEN |
| TOTAL | | 1162 | | | 1162 | | | 1162 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 51.1 | 44.4 | 47.8 | 48.4 | 52.1 | 50.2 | 49.7 | 54.0 | 51.8 | MEAN |
| S.D. | 9.1 | 9.2 | 9.8 | 7.6 | 8.2 | 8.1 | 9.3 | 9.4 | 9.6 | S.D. |

| | SOCIAL SERV. | | | BUS. CONTACT | | | BUS. MANAG. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 95 | 97 | 99 | 98 | 98 | 99 | 99 | 99 | 71-75 |
| 66-70 | 97 | 87 | 92 | 96 | 93 | 95 | 97 | 98 | 97 | 66-70 |
| 61-65 | 93 | 74 | 83 | 91 | 85 | 88 | 90 | 95 | 92 | 61-65 |
| 56-60 | 80 | 51 | 66 | 81 | 74 | 78 | 76 | 90 | 83 | 56-60 |
| 51-55 | 61 | 30 | 45 | 60 | 54 | 57 | 55 | 77 | 66 | 51-55 |
| 46-50 | 39 | 15 | 27 | 37 | 32 | 34 | 32 | 59 | 45 | 46-50 |
| 41-45 | 18 | 5 | 12 | 19 | 16 | 18 | 15 | 38 | 26 | 41-45 |
| 36-40 | 6 | 1 | 4 | 7 | 7 | 7 | 6 | 18 | 12 | 36-40 |
| 31-35 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 8 | 5 | 31-35 |
| 26-30 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 586 | | | 586 | | | 586 | | MEN |
| WOMEN | | 576 | | | 576 | | | 576 | | WOMEN |
| TOTAL | | 1162 | | | 1162 | | | 1162 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 50.9 | 57.7 | 54.3 | 50.7 | 52.3 | 51.5 | 52.2 | 46.5 | 49.4 | MEAN |
| S.D. | 8.5 | 8.6 | 9.2 | 8.7 | 9.5 | 9.1 | 8.4 | 9.5 | 9.4 | S.D. |

*APPENDIX C*
**SOCIAL SCIENCE AND PUBLIC SERVICE CLUSTER**

**TABLE C.2–DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)––CONTINUED**

| | BUS. DETAIL | | | HOUSEHOLD | | | CARPENTRY | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 98 | 99 | 99 | 98 | 99 | 99 | 99 | 99 | 71-75 |
| 66-70 | 99 | 95 | 97 | 99 | 91 | 95 | 97 | 99 | 98 | 66-70 |
| 61-65 | 97 | 88 | 93 | 99 | 80 | 90 | 87 | 98 | 92 | 61-65 |
| 56-60 | 91 | 77 | 84 | 94 | 61 | 77 | 72 | 95 | 83 | 56-60 |
| 51-55 | 74 | 60 | 67 | 83 | 39 | 61 | 53 | 84 | 68 | 51-55 |
| 46-50 | 47 | 40 | 44 | 57 | 20 | 39 | 34 | 66 | 50 | 46-50 |
| 41-45 | 26 | 23 | 25 | 30 | 8 | 19 | 16 | 44 | 30 | 41-45 |
| 36-40 | 13 | 12 | 12 | 16 | 4 | 10 | 6 | 23 | 14 | 36-40 |
| 31-35 | 4 | 5 | 4 | 6 | 2 | 4 | 2 | 10 | 6 | 31-35 |
| 26-30 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 4 | 2 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 586 | | | 586 | | | 586 | | MEN |
| WOMEN | | 576 | | | 576 | | | 576 | | WOMEN |
| TOTAL | | 1162 | | | 1162 | | | 1162 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 47.8 | 50.6 | 49.2 | 46.3 | 55.7 | 51.0 | 52.1 | 44.4 | 48.3 | MEAN |
| S.D. | 8.1 | 10.1 | 9.2 | 7.7 | 8.9 | 9.5 | 8.8 | 8.6 | 9.5 | S.D. |

| | AGRICULTURE | | | MECHANICAL | | | ELECTRICAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 71-75 |
| 66-70 | 97 | 98 | 97 | 96 | 99 | 98 | 98 | 99 | 99 | 66-70 |
| 61-65 | 90 | 94 | 92 | 90 | 99 | 95 | 93 | 99 | 96 | 61-65 |
| 56-60 | 77 | 88 | 82 | 73 | 99 | 86 | 80 | 98 | 89 | 56-60 |
| 51-55 | 60 | 76 | 68 | 45 | 91 | 68 | 55 | 90 | 72 | 51-55 |
| 46-50 | 36 | 57 | 46 | 23 | 74 | 48 | 29 | 72 | 50 | 46-50 |
| 41-45 | 17 | 35 | 26 | 9 | 52 | 31 | 12 | 49 | 30 | 41-45 |
| 36-40 | 7 | 17 | 12 | 2 | 30 | 16 | 3 | 27 | 15 | 36-40 |
| 31-35 | 2 | 6 | 4 | 1 | 17 | 9 | 1 | 13 | 7 | 31-35 |
| 26-30 | 1 | 3 | 2 | 1 | 9 | 5 | 1 | 6 | 3 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 20-25 |
| MEN | | 586 | | | 586 | | | 586 | | MEN |
| WOMEN | | 576 | | | 576 | | | 576 | | WOMEN |
| TOTAL | | 1162 | | | 1162 | | | 1162 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 51.3 | 46.9 | 49.1 | 53.6 | 41.7 | 47.7 | 51.9 | 42.4 | 47.2 | MEAN |
| S.D. | 8.6 | 9.5 | 9.3 | 7.4 | 8.6 | 10.0 | 7.0 | 8.4 | 9.1 | S.D. |

*APPENDIX C*

## SOCIAL SCIENCE AND PUBLIC SERVICE CLUSTER

### TABLE C.3–DISTRIBUTION OF SPECIAL COMPETENCIES

| | SKILLED TRADES | | | HOME ECONOMICS | | | SCIENTIFIC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 9 | 209 | 218 | 46 | 3 | 49 | 29 | 65 | 94 | 0 |
| 1 | 9 | 75 | 84 | 50 | 5 | 55 | 35 | 80 | 115 | 1 |
| 2 | 12 | 76 | 88 | 93 | 12 | 105 | 81 | 116 | 197 | 2 |
| 3 | 22 | 54 | 76 | 60 | 15 | 75 | 91 | 98 | 189 | 3 |
| 4 | 36 | 34 | 70 | 62 | 27 | 89 | 96 | 67 | 163 | 4 |
| 5 | 30 | 21 | 51 | 58 | 31 | 89 | 83 | 53 | 136 | 5 |
| 6 | 31 | 14 | 45 | 63 | 36 | 99 | 50 | 27 | 77 | 6 |
| 7-8 | 79 | 13 | 92 | 71 | 92 | 163 | 67 | 19 | 86 | 7-8 |
| 9-10 | 82 | 16 | 98 | 44 | 113 | 157 | 14 | 7 | 21 | 9-10 |
| 11-12 | 59 | 11 | 70 | 16 | 128 | 144 | | | | 11-12 |
| 13-14 | 65 | | 65 | 5 | 92 | 97 | | | | 13-14 |
| OVER 14 | 140 | 6 | 146 | | | | | | | OVER 14 |
| N-CT | 574 | 529 | 1103 | 568 | 554 | 1122 | 546 | 532 | 1078 | N-CT |
| MEAN | 10.3 | 2.3 | 6.4 | 4.4 | 9.1 | 6.7 | 4.0 | 2.8 | 3.4 | MEAN |
| S.D. | 5.1 | 3.2 | 5.9 | 3.1 | 3.4 | 4.0 | 2.2 | 2.0 | 2.2 | S.D. |

| | SPORTS | | | ARTISTIC | | | COMMUNITY SERV. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 12 | 43 | 55 | 77 | 20 | 97 | 185 | 81 | 266 | 0 |
| 1 | 14 | 89 | 103 | 73 | 22 | 95 | 87 | 83 | 170 | 1 |
| 2 | 26 | 103 | 129 | 90 | 61 | 151 | 92 | 95 | 187 | 2 |
| 3 | 43 | 101 | 144 | 78 | 54 | 132 | 62 | 97 | 159 | 3 |
| 4 | 74 | 64 | 138 | 61 | 76 | 137 | 38 | 72 | 110 | 4 |
| 5 | 79 | 44 | 123 | 53 | 67 | 120 | 35 | 37 | 72 | 5 |
| 6 | 56 | 28 | 84 | 39 | 58 | 97 | 18 | 28 | 46 | 6 |
| 7-8 | 139 | 31 | 170 | 47 | 93 | 140 | 21 | 30 | 51 | 7-8 |
| 9-10 | 89 | 17 | 106 | 19 | 54 | 73 | 10 | 18 | 28 | 9-10 |
| 11-12 | 28 | 8 | 36 | 10 | 27 | 37 | | | | 11-12 |
| 13-14 | | | | 2 | 14 | 16 | | | | 13-14 |
| OVER 14 | | | | 2 | 5 | 7 | | | | OVER 14 |
| N-CT | 560 | 528 | 1088 | 551 | 551 | 1102 | 548 | 541 | 1089 | N-CT |
| MEAN | 6.1 | 3.3 | 4.7 | 3.5 | 5.6 | 4.5 | 2.1 | 2.9 | 2.5 | MEAN |
| S.D. | 2.7 | 2.5 | 3.0 | 2.8 | 3.2 | 3.2 | 2.3 | 2.3 | 2.3 | S.D. |

| | BUSINESS | | | LEADERSHIP | | | CLERICAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 6 | 21 | 27 | 60 | 35 | 95 | 50 | 39 | 89 | 0 |
| 1 | 27 | 51 | 78 | 54 | 44 | 98 | 69 | 56 | 125 | 1 |
| 2 | 46 | 94 | 140 | 72 | 76 | 148 | 89 | 75 | 164 | 2 |
| 3 | 77 | 126 | 203 | 72 | 69 | 141 | 73 | 70 | 143 | 3 |
| 4 | 91 | 87 | 178 | 62 | 70 | 132 | 75 | 55 | 130 | 4 |
| 5 | 88 | 78 | 166 | 60 | 63 | 123 | 53 | 55 | 108 | 5 |
| 6 | 59 | 43 | 102 | 50 | 55 | 105 | 49 | 44 | 93 | 6 |
| 7-8 | 92 | 29 | 121 | 68 | 77 | 145 | 45 | 64 | 109 | 7-8 |
| 9-10 | 44 | 9 | 53 | 26 | 34 | 60 | 34 | 52 | 86 | 9-10 |
| 11-12 | 15 | 5 | 20 | 14 | 11 | 25 | 11 | 26 | 37 | 11-12 |
| 13-14 | 4 | 1 | 5 | | | | 4 | 12 | 16 | 13-14 |
| OVER 14 | 1 | 2 | 3 | | | | | 1 | 1 | OVER 14 |
| N-CT | 550 | 546 | 1096 | 538 | 534 | 1072 | 552 | 549 | 1101 | N-CT |
| MEAN | 5.2 | 3.7 | 4.4 | 4.0 | 4.4 | 4.2 | 3.9 | 4.8 | 4.3 | MEAN |
| S.D. | 2.7 | 2.2 | 2.6 | 2.8 | 2.7 | 2.8 | 2.9 | 3.4 | 3.2 | S.D. |

*APPENDIX C*
**SOCIAL SCIENCE AND PUBLIC SERVICE CLUSTER**

**TABLE C.4—DISTRIBUTION OF HIGH SCHOOL GRADES**

MEN STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 27 | 5 | 30 | 5 | 49 | 8 | 23 | 4 | 32 | 5 | 95 | 16 |
| B | 150 | 26 | 116 | 20 | 204 | 35 | 139 | 24 | 130 | 22 | 165 | 28 |
| C | 300 | 51 | 277 | 47 | 261 | 45 | 273 | 47 | 160 | 27 | 101 | 17 |
| D | 80 | 14 | 109 | 19 | 43 | 7 | 70 | 12 | 19 | 3 | 9 | 2 |
| F | 5 | 1 | 22 | 4 | 1 | | 3 | 1 | 6 | 1 | 2 | |
| NOT TAKEN | 24 | 4 | 32 | 5 | 28 | 5 | 78 | 13 | 239 | 41 | 214 | 37 |
| MEAN | 2.20 | | 2.04 | | 2.46 | | 2.21 | | 2.47 | | 2.92 | |
| S.D. | .772 | | .883 | | .767 | | .755 | | .804 | | .816 | |
| NO. STUDENTS | 586 | | 586 | | 586 | | 586 | | 586 | | 586 | |

WOMEN STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 115 | 20 | 31 | 5 | 113 | 20 | 51 | 9 | 109 | 19 | 132 | 23 |
| B | 231 | 40 | 147 | 25 | 220 | 38 | 169 | 29 | 167 | 29 | 155 | 27 |
| C | 181 | 31 | 251 | 44 | 169 | 29 | 216 | 37 | 141 | 24 | 59 | 10 |
| D | 28 | 5 | 98 | 17 | 30 | 5 | 56 | 10 | 19 | 3 | 1 | |
| F | 3 | 1 | 13 | 2 | 1 | | 11 | 2 | 2 | | 1 | |
| NOT TAKEN | 19 | 3 | 37 | 6 | 44 | 8 | 74 | 13 | 139 | 24 | 229 | 40 |
| MEAN | 2.77 | | 2.16 | | 2.78 | | 2.38 | | 2.83 | | 3.20 | |
| S.D. | .851 | | .869 | | .849 | | .891 | | .869 | | .740 | |
| NO. STUDENTS | 577 | | 577 | | 577 | | 577 | | 577 | | 577 | |

TOTAL STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 142 | 12 | 61 | 5 | 162 | 14 | 74 | 6 | 141 | 12 | 227 | 20 |
| B | 381 | 33 | 263 | 23 | 424 | 36 | 308 | 26 | 297 | 26 | 320 | 28 |
| C | 481 | 41 | 528 | 45 | 430 | 37 | 489 | 42 | 301 | 26 | 160 | 14 |
| D | 108 | 9 | 207 | 18 | 73 | 6 | 126 | 11 | 38 | 3 | 10 | 1 |
| F | 8 | 1 | 35 | 3 | 2 | | 14 | 1 | 8 | 1 | 3 | |
| NOT TAKEN | 43 | 4 | 69 | 6 | 72 | 6 | 152 | 13 | 378 | 33 | 443 | 38 |
| MEAN | 2.48 | | 2.10 | | 2.62 | | 2.30 | | 2.67 | | 3.05 | |
| S.D. | .860 | | .878 | | .824 | | .830 | | .859 | | .792 | |
| NO. STUDENTS | 1,163 | | 1,163 | | 1,163 | | 1,163 | | 1,163 | | 1,163 | |

*APPENDIX C*
**SOCIAL SCIENCE AND PUBLIC SERVICE CLUSTER**

**TABLE C.5—DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)**

| | | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABUVE AVERAGE | TOP TEN PERCENT |
| ACADEMIC MOTIVATION | MEN | 586 | 4 | 61 | 29 | 6 |
| | WOMEN | 575 | 2 | 54 | 35 | 9 |
| | TOTAL | 1161 | 3 | 58 | 32 | 8 |
| ADAPTABILITY | MEN | 585 | 4 | 49 | 40 | 6 |
| | WOMEN | 575 | 3 | 56 | 34 | 6 |
| | TOTAL | 1160 | 4 | 52 | 37 | 6 |
| ARTISTIC ABILITY | MEN | 584 | 46 | 34 | 15 | 4 |
| | WOMEN | 572 | 35 | 42 | 19 | 4 |
| | TOTAL | 1156 | 41 | 38 | 17 | 4 |
| CLERICAL ABILITY | MEN | 584 | 26 | 53 | 17 | 3 |
| | WOMEN | 575 | 19 | 60 | 17 | 4 |
| | TOTAL | 1159 | 23 | 57 | 17 | 4 |
| COMMON SENSE | MEN | 586 | 1 | 37 | 48 | 13 |
| | WOMEN | 575 | 3 | 51 | 37 | 8 |
| | TOTAL | 1161 | 2 | 44 | 43 | 11 |
| COPING ABILITY | MEN | 585 | 4 | 52 | 36 | 7 |
| | WOMEN | 572 | 7 | 63 | 26 | 4 |
| | TOTAL | 1157 | 6 | 58 | 31 | 5 |
| ENGLISH ABILITY | MEN | 585 | 22 | 58 | 17 | 3 |
| | WOMEN | 574 | 14 | 60 | 22 | 5 |
| | TOTAL | 1159 | 18 | 59 | 20 | 4 |
| GETTING ALONG | MEN | 586 | 3 | 38 | 44 | 15 |
| | WOMEN | 575 | 2 | 39 | 48 | 11 |
| | TOTAL | 1161 | 2 | 39 | 46 | 13 |

*APPENDIX C*
**SOCIAL SCIENCE AND PUBLIC SERVICE CLUSTER**

**TABLE C.5—DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)—CONTINUED**

| | | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
| LEARNING ABILITY | MEN | 583 | 8 | 64 | 24 | 4 |
| | WOMEN | 574 | 8 | 67 | 22 | 3 |
| | TOTAL | 1157 | 8 | 65 | 23 | 4 |
| LIKING SCHOOL | MEN | 585 | 9 | 60 | 25 | 6 |
| | WOMEN | 575 | 7 | 51 | 33 | 9 |
| | TOTAL | 1160 | 8 | 55 | 29 | 8 |
| MATHEMATICAL ABILITY | MEN | 584 | 35 | 47 | 14 | 3 |
| | WOMEN | 575 | 47 | 44 | 8 | 1 |
| | TOTAL | 1159 | 41 | 46 | 11 | 2 |
| MECHANICAL ABILITY | MEN | 585 | 11 | 44 | 38 | 8 |
| | WOMEN | 573 | 49 | 44 | 7 | 1 |
| | TOTAL | 1158 | 30 | 44 | 22 | 4 |
| PHYSICAL ENERGY | MEN | 583 | 4 | 42 | 42 | 13 |
| | WOMEN | 572 | 9 | 56 | 30 | 5 |
| | TOTAL | 1155 | 6 | 49 | 36 | 9 |
| SCIENTIFIC ABILITY | MEN | 586 | 38 | 50 | 11 | 1 |
| | WOMEN | 575 | 51 | 44 | 5 | 1 |
| | TOTAL | 1161 | 45 | 47 | 8 | 1 |
| SOCIAL SELF-CONFIDENCE | MEN | 586 | 13 | 55 | 25 | 7 |
| | WOMEN | 573 | 11 | 55 | 27 | 7 |
| | TOTAL | 1159 | 12 | 55 | 26 | 7 |
| WORK MOTIVATION | MEN | 584 | 2 | 34 | 50 | 14 |
| | WOMEN | 570 | 2 | 36 | 51 | 12 |
| | TOTAL | 1154 | 2 | 35 | 50 | 13 |

# APPENDIX D

## SPECIAL SUBGROUP NORMS

Special Subgroups

Age 25 and over

Afro-American/black

Mexican/Spanish American

Part-time students

Transfer students

The following tables are provided for each of the above clusters:

Table D. 1 Distribution of Test Scores (Ability Measures)

Table D. 2 Distribution of Vocational Interests

Table D. 3 Distribution of Special Competencies

Table D. 4 Distribution of High School Grades

Table D. 5 Distribution of Self-Estimates of Skills

Cautions

A note of caution is needed when interpreting special subgroup norms. Because students within these special subgroups have had diverse educational experiences, the implications of the normative information for counseling, guidance, and placement can vary from group to group. For example, the self-report information related to high school grades for adult students may not be as accurate or useful because of the time interval between high school and entry into a postsecondary educational institution. Likewise, subgroups of students from culturally different backgrounds may not have had the life experiences and educational opportunities which result in high test scores. The Special Subgroup Norms can be used to obtain an indication of how an individual compares with others from similar circumstances. Comparison of an individual's scores with local norms based on students with whom he will compete should also prove useful--both to the student in making educational plans and to the institution in helping him implement them.

*APPENDIX D*

**AGE 25 AND OVER**

**TABLE D.1–DISTRIBUTION OF TEST SCORES (IN PERCENTILES)**

| | MECHANICAL SKILLS | | | NONVERBAL REASONING | | | CLERICAL SKILLS | | | NUMERICAL COMPUTATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 98 | 99 | 99 | 99 | 99 | 99 | 97 | 99 | 98 | 98 | 99 | 99 | 71-75 |
| 66-70 | 92 | 99 | 95 | 97 | 98 | 97 | 92 | 95 | 94 | 97 | 98 | 97 | 66-70 |
| 61-65 | 81 | 99 | 88 | 93 | 94 | 94 | 86 | 91 | 88 | 92 | 96 | 93 | 61-65 |
| 56-60 | 64 | 94 | 77 | 87 | 88 | 87 | 78 | 83 | 80 | 83 | 91 | 86 | 56-60 |
| 51-55 | 44 | 84 | 61 | 76 | 77 | 76 | 65 | 69 | 67 | 69 | 78 | 72 | 51-55 |
| 46-50 | 27 | 69 | 44 | 59 | 61 | 60 | 49 | 53 | 51 | 52 | 60 | 55 | 46-50 |
| 41-45 | 14 | 47 | 28 | 39 | 44 | 41 | 31 | 35 | 33 | 32 | 37 | 34 | 41-45 |
| 36-40 | 6 | 27 | 15 | 21 | 27 | 24 | 15 | 18 | 16 | 16 | 18 | 16 | 36-40 |
| 31-35 | 2 | 12 | 6 | 9 | 13 | 11 | 6 | 8 | 7 | 8 | 8 | 8 | 31-35 |
| 26-30 | 1 | 4 | 2 | 2 | 4 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 1490 | | | 1490 | | | 1490 | | | 1490 | | MEN |
| WOMEN | | 1071 | | | 1071 | | | 1071 | | | 1071 | | WOMEN |
| TOTAL | | 2561 | | | 2561 | | | 2561 | | | 2561 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | M | W | T | |
| MEAN | 54.3 | 43.8 | 49.9 | 46.2 | 45.1 | 45.7 | 49.6 | 47.8 | 48.8 | 48.0 | 46.0 | 47.1 | MEAN |
| S.D. | 9.7 | 8.7 | 10.6 | 10.1 | 10.7 | 10.4 | 11.2 | 10.8 | 11.1 | 10.1 | 9.1 | 9.7 | S.D. |

| | MATHEMATICAL REASONING | | | SPACE RELATIONS | | | READING SKILLS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 99 | 99 | 97 | 99 | 98 | 98 | 99 | 98 | 71-75 |
| 66-70 | 96 | 99 | 97 | 93 | 99 | 96 | 95 | 96 | 95 | 66-70 |
| 61-65 | 90 | 97 | 93 | 87 | 97 | 91 | 88 | 88 | 88 | 61-65 |
| 56-60 | 80 | 92 | 85 | 75 | 92 | 82 | 76 | 75 | 76 | 56-60 |
| 51-55 | 61 | 79 | 68 | 59 | 81 | 68 | 61 | 61 | 61 | 51-55 |
| 46-50 | 37 | 57 | 45 | 40 | 63 | 50 | 43 | 44 | 44 | 46-50 |
| 41-45 | 23 | 38 | 29 | 25 | 42 | 32 | 25 | 26 | 26 | 41-45 |
| 36-40 | 14 | 25 | 18 | 15 | 26 | 20 | 13 | 13 | 13 | 36-40 |
| 31-35 | 7 | 13 | 9 | 10 | 17 | 13 | 5 | 6 | 5 | 31-35 |
| 26-30 | 4 | 7 | 5 | 5 | 9 | 7 | 2 | 2 | 2 | 26-30 |
| 20-25 | 2 | 4 | 3 | 1 | 3 | 2 | 1 | 1 | 1 | 20-25 |
| MEN | | 1490 | | | 1490 | | | 1490 | | MEN |
| WOMEN | | 1071 | | | 1071 | | | 1071 | | WOMEN |
| TOTAL | | 2561 | | | 2561 | | | 2561 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 49.8 | 45.1 | 47.8 | 50.2 | 44.2 | 47.7 | 50.0 | 49.8 | 50.0 | MEAN |
| S.D. | 10.1 | 9.7 | 10.2 | 11.8 | 10.3 | 11.6 | 10.5 | 10.6 | 10.5 | S.D. |

*APPENDIX D*

**AGE 25 AND OVER**

**TABLE D.2–DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)**

| | SCIENTIFIC | | | HEALTH | | | ARTISTIC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 98 | 99 | 99 | 99 | 96 | 98 | 99 | 98 | 99 | 71-75 |
| 66-70 | 93 | 98 | 95 | 98 | 88 | 94 | 98 | 93 | 96 | 66-70 |
| 61-65 | 84 | 94 | 88 | 96 | 66 | 84 | 94 | 83 | 89 | 61-65 |
| 56-60 | 68 | 84 | 75 | 89 | 40 | 69 | 84 | 65 | 76 | 56-60 |
| 51-55 | 47 | 66 | 55 | 78 | 24 | 55 | 69 | 46 | 60 | 51-55 |
| 46-50 | 28 | 46 | 35 | 58 | 14 | 40 | 51 | 28 | 41 | 46-50 |
| 41-45 | 15 | 28 | 20 | 35 | 7 | 23 | 30 | 13 | 23 | 41-45 |
| 36-40 | 7 | 13 | 9 | 18 | 3 | 12 | 15 | 6 | 11 | 36-40 |
| 31-35 | 3 | 5 | 4 | 8 | 1 | 5 | 7 | 3 | 5 | 31-35 |
| 26-30 | 1 | 2 | 2 | 4 | 1 | 2 | 3 | 1 | 2 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 1485 | | | 1486 | | | 1486 | | MEN |
| WOMEN | | 1064 | | | 1060 | | | 1064 | | WOMEN |
| TOTAL | | 2549 | | | 2546 | | | 2550 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 53.7 | 49.3 | 51.9 | 46.4 | 58.8 | 51.5 | 48.2 | 53.8 | 50.5 | MEAN |
| S.D. | 9.8 | 9.1 | 9.7 | 9.4 | 9.3 | 11.2 | 9.7 | 9.6 | 10.1 | S.D. |

| | SOCIAL SERV. | | | BUS. CONTACT | | | BUS. MANAG. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 97 | 98 | 99 | 99 | 99 | 97 | 99 | 98 | 71-75 |
| 66-70 | 98 | 93 | 96 | 96 | 97 | 96 | 94 | 98 | 95 | 66-70 |
| 61-65 | 95 | 85 | 91 | 91 | 91 | 91 | 85 | 94 | 89 | 61-65 |
| 56-60 | 87 | 65 | 78 | 82 | 81 | 82 | 69 | 87 | 76 | 56-60 |
| 51-55 | 74 | 42 | 61 | 67 | 62 | 65 | 50 | 75 | 60 | 51-55 |
| 46-50 | 55 | 23 | 42 | 49 | 41 | 46 | 32 | 58 | 43 | 46-50 |
| 41-45 | 33 | 10 | 23 | 31 | 23 | 28 | 17 | 38 | 26 | 41-45 |
| 36-40 | 17 | 3 | 11 | 15 | 10 | 13 | 8 | 20 | 13 | 36-40 |
| 31-35 | 7 | 1 | 4 | 6 | 4 | 5 | 3 | 9 | 5 | 31-35 |
| 26-30 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 4 | 2 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 1485 | | | 1485 | | | 1485 | | MEN |
| WOMEN | | 1063 | | | 1061 | | | 1061 | | WOMEN |
| TOTAL | | 2548 | | | 2546 | | | 2546 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 47.1 | 54.7 | 50.3 | 48.4 | 49.9 | 49.0 | 52.8 | 46.6 | 50.2 | MEAN |
| S.D. | 9.5 | 8.6 | 9.9 | 10.3 | 9.3 | 9.9 | 10.1 | 10.0 | 10.5 | S.D. |

**AGE 25 AND OVER**

**TABLE D.2–DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)—CONTINUED**

| | BUS. DETAIL | | | HOUSEHOLD | | | CARPENTRY | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 98 | 99 | 99 | 98 | 99 | 97 | 99 | 98 | 71-75 |
| 66-70 | 97 | 94 | 96 | 99 | 92 | 96 | 92 | 99 | 95 | 66-70 |
| 61-65 | 92 | 84 | 89 | 97 | 80 | 90 | 81 | 97 | 88 | 61-65 |
| 56-60 | 83 | 71 | 78 | 90 | 59 | 77 | 63 | 92 | 75 | 56-60 |
| 51-55 | 66 | 55 | 61 | 77 | 37 | 60 | 41 | 80 | 57 | 51-55 |
| 46-50 | 44 | 36 | 40 | 54 | 19 | 39 | 24 | 63 | 40 | 46-50 |
| 41-45 | 26 | 21 | 24 | 31 | 7 | 21 | 12 | 43 | 25 | 41-45 |
| 36-40 | 13 | 11 | 12 | 17 | 3 | 11 | 5 | 24 | 13 | 36-40 |
| 31-35 | 5 | 4 | 5 | 7 | 1 | 5 | 2 | 11 | 6 | 31-35 |
| 26-30 | 2 | 1 | 2 | 3 | 1 | 2 | 1 | 4 | 2 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 1485 | | | 1485 | | | 1485 | | MEN |
| WOMEN | | 1063 | | | 1062 | | | 1063 | | WOMEN |
| TOTAL | | 2548 | | | 2547 | | | 2548 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 49.1 | 51.8 | 50.2 | 46.8 | 56.0 | 50.7 | 54.5 | 44.9 | 50.5 | MEAN |
| S.D. | 9.5 | 10.3 | 9.9 | 8.7 | 8.6 | 9.8 | 9.5 | 9.1 | 10.5 | S.D. |

| | AGRICULTURE | | | MECHANICAL | | | ELECTRICAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 98 | 99 | 99 | 98 | 99 | 99 | 98 | 99 | 99 | 71-75 |
| 66-70 | 94 | 98 | 96 | 94 | 99 | 96 | 94 | 99 | 97 | 66-70 |
| 61-65 | 83 | 93 | 87 | 83 | 99 | 90 | 83 | 99 | 89 | 61-65 |
| 56-60 | 69 | 85 | 76 | 59 | 98 | 76 | 63 | 97 | 77 | 56-60 |
| 51-55 | 52 | 73 | 61 | 31 | 91 | 56 | 39 | 86 | 59 | 51-55 |
| 46-50 | 31 | 51 | 39 | 13 | 74 | 39 | 18 | 66 | 38 | 46-50 |
| 41-45 | 14 | 31 | 21 | 5 | 52 | 25 | 7 | 43 | 22 | 41-45 |
| 36-40 | 6 | 15 | 10 | 2 | 31 | 14 | 2 | 25 | 12 | 36-40 |
| 31-35 | 3 | 5 | 4 | 1 | 17 | 8 | 1 | 12 | 6 | 31-35 |
| 26-30 | 2 | 2 | 2 | 1 | 9 | 4 | 1 | 6 | 3 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 20-25 |
| MEN | | 1485 | | | 1485 | | | 1485 | | MEN |
| WOMEN | | 1062 | | | 1063 | | | 1061 | | WOMEN |
| TOTAL | | 2547 | | | 2548 | | | 2546 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 53.0 | 48.0 | 50.9 | 56.2 | 41.7 | 50.1 | 55.1 | 43.5 | 50.3 | MEAN |
| S.D. | 9.7 | 9.4 | 9.9 | 7.6 | 8.7 | 10.8 | 8.1 | 8.7 | 10.2 | S.D. |

*APPENDIX D*

**AGE 25 AND OVER**

**TABLE D.3–DISTRIBUTION OF SPECIAL COMPETENCIES**

| SCORE | SKILLED TRADES M | W | T | HOME ECONOMICS M | W | T | SCIENTIFIC M | W | T | SCORE |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12 | 286 | 298 | 98 | 2 | 100 | 97 | 45 | 142 | 0 |
| 1 | 4 | 91 | 95 | 80 | 8 | 88 | 123 | 111 | 234 | 1 |
| 2 | 17 | 129 | 146 | 125 | 9 | 134 | 211 | 228 | 439 | 2 |
| 3 | 27 | 126 | 153 | 138 | 5 | 143 | 213 | 184 | 397 | 3 |
| 4 | 29 | 84 | 113 | 123 | 10 | 133 | 213 | 170 | 383 | 4 |
| 5 | 30 | 63 | 93 | 165 | 11 | 176 | 169 | 106 | 275 | 5 |
| 6 | 51 | 31 | 82 | 154 | 26 | 180 | 135 | 59 | 194 | 6 |
| 7-8 | 108 | 51 | 159 | 253 | 84 | 337 | 157 | 51 | 208 | 7-8 |
| 9-10 | 175 | 35 | 210 | 168 | 172 | 340 | 37 | 20 | 57 | 9-10 |
| 11-12 | 210 | 19 | 229 | 60 | 260 | 320 | | | | 11-12 |
| 13-14 | 207 | 9 | 216 | 22 | 423 | 445 | | | | 13-14 |
| OVER 14 | 563 | 19 | 582 | | | | | | | OVER 14 |
| N-CT | 1433 | 943 | 2376 | 1386 | 1010 | 2396 | 1355 | 974 | 2329 | N-CT |
| MEAN | 12.8 | 3.2 | 9.0 | 5.4 | 11.2 | 7.8 | 3.8 | 3.3 | 3.6 | MEAN |
| S.D. | 4.9 | 3.8 | 6.5 | 3.2 | 2.8 | 4.2 | 2.3 | 2.0 | 2.2 | S.D. |

| SCORE | SPORTS M | W | T | ARTISTIC M | W | T | COMMUNITY SERV. M | W | T | SCORE |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 57 | 109 | 166 | 275 | 40 | 315 | 540 | 79 | 619 | 0 |
| 1 | 79 | 168 | 247 | 200 | 56 | 256 | 213 | 130 | 343 | 1 |
| 2 | 112 | 220 | 332 | 211 | 99 | 310 | 188 | 151 | 339 | 2 |
| 3 | 166 | 157 | 323 | 171 | 114 | 285 | 137 | 140 | 277 | 3 |
| 4 | 192 | 112 | 304 | 133 | 110 | 243 | 92 | 115 | 207 | 4 |
| 5 | 178 | 73 | 251 | 104 | 113 | 217 | 67 | 108 | 175 | 5 |
| 6 | 158 | 33 | 191 | 59 | 107 | 166 | 47 | 81 | 128 | 6 |
| 7-8 | 237 | 40 | 277 | 102 | 162 | 264 | 57 | 125 | 182 | 7-8 |
| 9-10 | 141 | 20 | 161 | 46 | 105 | 151 | 24 | 60 | 84 | 9-10 |
| 11-12 | 60 | 17 | 77 | 18 | 50 | 68 | | | | 11-12 |
| 13-14 | | | | 5 | 23 | 28 | | | | 13-14 |
| OVER 14 | | | | 6 | 6 | 12 | | | | OVER 14 |
| N-CT | 1380 | 949 | 2329 | 1330 | 985 | 2315 | 1365 | 989 | 2354 | N-CT |
| MEAN | 5.2 | 2.9 | 4.3 | 3.1 | 5.5 | 4.1 | 1.9 | 3.9 | 2.7 | MEAN |
| S.D. | 2.9 | 2.4 | 2.9 | 2.9 | 3.3 | 3.3 | 2.3 | 2.6 | 2.6 | S.D. |

| SCORE | BUSINESS M | W | T | LEADERSHIP M | W | T | CLERICAL M | W | T | SCORE |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 16 | 26 | 42 | 157 | 56 | 213 | 81 | 40 | 121 | 0 |
| 1 | 69 | 80 | 149 | 128 | 71 | 199 | 125 | 63 | 188 | 1 |
| 2 | 141 | 160 | 301 | 188 | 125 | 313 | 169 | 94 | 263 | 2 |
| 3 | 185 | 187 | 372 | 182 | 122 | 304 | 153 | 98 | 251 | 3 |
| 4 | 179 | 185 | 364 | 153 | 126 | 279 | 156 | 102 | 258 | 4 |
| 5 | 194 | 134 | 328 | 128 | 85 | 213 | 134 | 90 | 224 | 5 |
| 6 | 160 | 104 | 264 | 108 | 88 | 196 | 124 | 74 | 198 | 6 |
| 7-8 | 224 | 74 | 298 | 149 | 178 | 327 | 185 | 160 | 345 | 7-8 |
| 9-10 | 117 | 26 | 143 | 74 | 97 | 171 | 135 | 118 | 253 | 9-10 |
| 11-12 | 42 | 7 | 49 | 34 | 29 | 63 | 53 | 107 | 160 | 11-12 |
| 13-14 | 6 | 5 | 11 | | | | 15 | 35 | 50 | 13-14 |
| OVER 14 | 14 | 11 | 25 | | | | 3 | 11 | 14 | OVER 14 |
| N-CT | 1347 | 999 | 2346 | 1301 | 977 | 2278 | 1333 | 992 | 2325 | N-CT |
| MEAN | 5.3 | 4.1 | 4.8 | 3.9 | 4.8 | 4.3 | 4.8 | 6.1 | 5.4 | MEAN |
| S.D. | 2.9 | 2.5 | 2.8 | 2.9 | 2.9 | 2.9 | 3.2 | 3.7 | 3.5 | S.D. |

*APPENDIX D*

**AGE 25 AND OVER**

**TABLE D.4—DISTRIBUTION OF HIGH SCHOOL GRADES**

MEN STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 43 | 3 | 117 | 8 | 74 | 5 | 64 | 4 | 61 | 4 | 195 | 13 |
| B | 296 | 20 | 364 | 24 | 390 | 26 | 315 | 21 | 250 | 17 | 405 | 27 |
| C | 759 | 51 | 630 | 42 | 674 | 45 | 615 | 41 | 339 | 23 | 282 | 19 |
| D | 219 | 15 | 185 | 12 | 108 | 7 | 138 | 9 | 53 | 4 | 26 | 2 |
| F | 20 | 1 | 27 | 2 | 11 | 1 | 12 | 1 | 14 | 1 | 3 | |
| NOT TAKEN | 153 | 10 | 167 | 11 | 233 | 16 | 346 | 23 | 773 | 52 | 579 | 39 |
| MEAN | 2,09 | | 2,27 | | 2,32 | | 2,25 | | 2,41 | | 2,84 | |
| S.D. | ,752 | | ,881 | | ,749 | | ,775 | | ,822 | | ,801 | |
| NO. STUDENTS | 1,490 | | 1,490 | | 1,490 | | 1,490 | | 1,490 | | 1,490 | |

WOMEN STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 167 | 16 | 98 | 9 | 129 | 12 | 82 | 8 | 145 | 14 | 173 | 16 |
| B | 461 | 43 | 335 | 31 | 400 | 37 | 335 | 31 | 299 | 28 | 283 | 26 |
| C | 335 | 31 | 427 | 40 | 377 | 35 | 401 | 37 | 253 | 24 | 149 | 14 |
| D | 22 | 2 | 97 | 9 | 43 | 4 | 35 | 3 | 20 | 2 | 5 | |
| F | 3 | | 12 | 1 | 2 | | 3 | | 3 | | 2 | |
| NOT TAKEN | 83 | 8 | 102 | 10 | 120 | 11 | 215 | 20 | 351 | 33 | 459 | 43 |
| MEAN | 2,78 | | 2,42 | | 2,64 | | 2,54 | | 2,78 | | 3,01 | |
| S.D. | ,758 | | ,849 | | ,777 | | ,737 | | ,809 | | ,767 | |
| NO. STUDENTS | 1,071 | | 1,071 | | 1,071 | | 1,071 | | 1,071 | | 1,071 | |

TOTAL STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 210 | 8 | 215 | 8 | 203 | 8 | 146 | 6 | 206 | 8 | 368 | 14 |
| B | 757 | 30 | 699 | 27 | 790 | 31 | 650 | 25 | 549 | 21 | 688 | 27 |
| C | 1094 | 43 | 1057 | 41 | 1051 | 41 | 1016 | 40 | 592 | 23 | 431 | 17 |
| D | 241 | 9 | 282 | 11 | 151 | 6 | 173 | 7 | 73 | 3 | 31 | 1 |
| F | 23 | 1 | 39 | 2 | 13 | 1 | 15 | 1 | 17 | 1 | 5 | |
| NOT TAKEN | 236 | 9 | 269 | 11 | 353 | 14 | 561 | 22 | 1124 | 44 | 1038 | 41 |
| MEAN | 2,38 | | 2,34 | | 2,46 | | 2,37 | | 2,59 | | 2,91 | |
| S.D. | ,827 | | ,871 | | ,777 | | ,773 | | ,837 | | ,792 | |
| NO. STUDENTS | 2,561 | | 2,561 | | 2,561 | | 2,561 | | 2,561 | | 2,561 | |

*APPENDIX D*

**AGE 25 AND OVER**

**TABLE D.5–DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)**

| | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
| ACADEMIC MOTIVATION | MEN | 1486 | 4 | 47 | 38 | 10 |
| | WOMEN | 1065 | 2 | 38 | 45 | 15 |
| | TOTAL | 2551 | 3 | 43 | 41 | 12 |
| ADAPTABILITY | MEN | 1482 | 5 | 48 | 39 | 8 |
| | WOMEN | 1063 | 4 | 54 | 35 | 8 |
| | TOTAL | 2545 | 5 | 50 | 37 | 8 |
| ARTISTIC ABILITY | MEN | 1475 | 52 | 33 | 12 | 3 |
| | WOMEN | 1050 | 42 | 41 | 15 | 2 |
| | TOTAL | 2525 | 48 | 36 | 14 | 2 |
| CLERICAL ABILITY | MEN | 1473 | 24 | 53 | 19 | 4 |
| | WOMEN | 1057 | 20 | 58 | 18 | 5 |
| | TOTAL | 2530 | 22 | 55 | 18 | 4 |
| COMMON SENSE | MEN | 1482 | 2 | 41 | 42 | 14 |
| | WOMEN | 1063 | 3 | 53 | 37 | 7 |
| | TOTAL | 2545 | 2 | 46 | 40 | 12 |
| COPING ABILITY | MEN | 1484 | 6 | 56 | 31 | 6 |
| | WOMEN | 1063 | 5 | 59 | 30 | 6 |
| | TOTAL | 2547 | 6 | 58 | 31 | 6 |
| ENGLISH ABILITY | MEN | 1486 | 29 | 55 | 13 | 3 |
| | WOMEN | 1061 | 12 | 60 | 23 | 5 |
| | TOTAL | 2547 | 22 | 57 | 17 | 4 |
| GETTING ALONG | MEN | 1486 | 4 | 41 | 42 | 13 |
| | WOMEN | 1060 | 2 | 45 | 41 | 12 |
| | TOTAL | 2546 | 3 | 42 | 42 | 12 |

*APPENDIX D*

**AGE 25 AND OVER**

**TABLE D.5—DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)—CONTINUED**

| | | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TUP TEN PERCENT |
| LEARNING ABILITY | MEN | 1488 | 9 | 63 | 24 | 4 |
| | WOMEN | 1063 | 10 | 69 | 19 | 3 |
| | TOTAL | 2551 | 10 | 65 | 22 | 3 |
| LIKING SCHOOL | MEN | 1487 | 5 | 49 | 37 | 9 |
| | WOMEN | 1065 | 3 | 39 | 44 | 15 |
| | TOTAL | 2552 | 4 | 45 | 40 | 11 |
| MATHEMATICAL ABILITY | MEN | 1487 | 24 | 54 | 18 | 4 |
| | WOMEN | 1062 | 42 | 48 | 8 | 1 |
| | TOTAL | 2549 | 32 | 52 | 14 | 3 |
| MECHANICAL ABILITY | MEN | 1484 | 6 | 39 | 41 | 14 |
| | WOMEN | 1063 | 40 | 48 | 10 | 2 |
| | TOTAL | 2547 | 20 | 43 | 28 | 9 |
| PHYSICAL ENERGY | MEN | 1484 | 8 | 44 | 36 | 12 |
| | WOMEN | 1063 | 6 | 56 | 33 | 6 |
| | TOTAL | 2547 | 7 | 49 | 35 | 9 |
| SCIENTIFIC ABILITY | MEN | 1484 | 41 | 46 | 10 | 2 |
| | WOMEN | 1056 | 42 | 50 | 6 | 1 |
| | TOTAL | 2540 | 42 | 48 | 8 | 2 |
| SOCIAL SELF-CONFIDENCE | MEN | 1482 | 18 | 54 | 23 | 6 |
| | WOMEN | 1064 | 10 | 57 | 26 | 7 |
| | TOTAL | 2546 | 15 | 55 | 24 | 6 |
| WORK MOTIVATION | MEN | 1472 | 2 | 30 | 52 | 17 |
| | WOMEN | 1053 | 2 | 27 | 54 | 18 |
| | TOTAL | 2525 | 2 | 28 | 53 | 17 |

*APPENDIX D*

**AFRO-AMERICAN/BLACK**

**TABLE D.1—DISTRIBUTION OF TEST SCORES (IN PERCENTILES)**

| | MECHANICAL SKILLS | | | NONVERBAL REASONING | | | CLERICAL SKILLS | | | NUMERICAL COMPUTATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 98 | 99 | 99 | 99 | 99 | 71-75 |
| 66-70 | 99 | 99 | 99 | 99 | 99 | 99 | 97 | 95 | 96 | 99 | 99 | 99 | 66-70 |
| 61-65 | 99 | 99 | 99 | 99 | 99 | 99 | 95 | 90 | 93 | 98 | 96 | 97 | 61-65 |
| 56-60 | 97 | 99 | 99 | 96 | 97 | 96 | 92 | 84 | 88 | 95 | 89 | 92 | 56-60 |
| 51-55 | 91 | 99 | 95 | 88 | 90 | 89 | 87 | 76 | 81 | 87 | 79 | 83 | 51-55 |
| 46-50 | 77 | 96 | 87 | 75 | 74 | 74 | 79 | 66 | 72 | 76 | 67 | 71 | 46-50 |
| 41-45 | 54 | 85 | 70 | 55 | 50 | 53 | 65 | 51 | 58 | 56 | 45 | 51 | 41-45 |
| 36-40 | 29 | 63 | 46 | 32 | 27 | 30 | 46 | 34 | 40 | 34 | 24 | 29 | 36-40 |
| 31-35 | 12 | 33 | 23 | 15 | 13 | 14 | 24 | 18 | 21 | 18 | 13 | 15 | 31-35 |
| 26-30 | 3 | 10 | 7 | 5 | 4 | 4 | 9 | 8 | 9 | 5 | 4 | 5 | 26-30 |
| 20-25 | 1 | 2 | 1 | 1 | 1 | 1 | 3 | 2 | 3 | 1 | 1 | 1 | 20-25 |
| MEN | | 676 | | | 676 | | | 676 | | | 676 | | MEN |
| WOMEN | | 696 | | | 696 | | | 696 | | | 696 | | WOMEN |
| TOTAL | | 1372 | | | 1372 | | | 1372 | | | 1372 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | M | W | T | |
| MEAN | 42.6 | 36.0 | 39.2 | 42.0 | 42.5 | 42.2 | 40.6 | 44.5 | 42.6 | 41.8 | 44.6 | 43.2 | MEAN |
| S.D. | 7.9 | 6.4 | 7.9 | 8.4 | 8.0 | 8.2 | 10.9 | 12.6 | 11.9 | 9.2 | 9.7 | 9.6 | S.D. |

| | MATHEMATICAL REASONING | | | SPACE RELATIONS | | | READING SKILLS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 71-75 |
| 66-70 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 66-70 |
| 61-65 | 99 | 99 | 99 | 98 | 99 | 99 | 99 | 99 | 99 | 61-65 |
| 56-60 | 97 | 99 | 98 | 95 | 98 | 97 | 97 | 97 | 97 | 56-60 |
| 51-55 | 89 | 93 | 91 | 87 | 94 | 91 | 92 | 94 | 93 | 51-55 |
| 46-50 | 72 | 78 | 75 | 72 | 85 | 79 | 82 | 85 | 84 | 46-50 |
| 41-45 | 53 | 60 | 57 | 52 | 68 | 60 | 65 | 67 | 66 | 41-45 |
| 36-40 | 36 | 42 | 39 | 33 | 45 | 39 | 45 | 42 | 44 | 36-40 |
| 31-35 | 18 | 23 | 20 | 19 | 26 | 23 | 24 | 19 | 21 | 31-35 |
| 26-30 | 9 | 13 | 11 | 9 | 12 | 11 | 9 | 6 | 8 | 26-30 |
| 20-25 | 5 | 7 | 6 | 2 | 3 | 2 | 2 | 2 | 2 | 20-25 |
| MEN | | 676 | | | 676 | | | 676 | | MEN |
| WOMEN | | 696 | | | 696 | | | 696 | | WOMEN |
| TOTAL | | 1372 | | | 1372 | | | 1372 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 41.8 | 40.0 | 40.9 | 42.3 | 39.0 | 40.6 | 39.5 | 39.8 | 39.7 | MEAN |
| S.D. | 8.9 | 8.7 | 8.8 | 9.5 | 8.5 | 9.2 | 8.9 | 8.0 | 8.5 | S.D. |

*APPENDIX D*

**AFRO-AMERICAN/BLACK**

**TABLE D.2—DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)**

| | SCIENTIFIC | | | HEALTH | | | ARTISTIC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 97 | 99 | 98 | 99 | 96 | 98 | 98 | 96 | 97 | 71-75 |
| 66-70 | 91 | 97 | 94 | 98 | 90 | 94 | 94 | 90 | 92 | 66-70 |
| 61-65 | 79 | 92 | 86 | 93 | 75 | 84 | 84 | 77 | 81 | 61-65 |
| 56-60 | 62 | 82 | 72 | 78 | 54 | 66 | 66 | 59 | 62 | 56-60 |
| 51-55 | 39 | 64 | 52 | 58 | 34 | 46 | 45 | 40 | 43 | 51-55 |
| 46-50 | 21 | 45 | 33 | 35 | 20 | 27 | 26 | 23 | 25 | 46-50 |
| 41-45 | 9 | 27 | 19 | 16 | 10 | 13 | 11 | 10 | 11 | 41-45 |
| 36-40 | 3 | 13 | 8 | 6 | 5 | 5 | 4 | 4 | 4 | 36-40 |
| 31-35 | 1 | 6 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 31-35 |
| 26-30 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 675 | | | 672 | | | 675 | | MEN |
| WOMEN | | 691 | | | 687 | | | 691 | | WOMEN |
| TOTAL | | 1366 | | | 1359 | | | 1366 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 55.9 | 49.5 | 52.7 | 51.3 | 56.4 | 53.9 | 53.8 | 55.5 | 54.7 | MEAN |
| S.D. | 9.2 | 10.0 | 10.1 | 8.4 | 9.7 | 9.4 | 9.0 | 9.8 | 9.4 | S.D. |

| | SOCIAL SERV. | | | BUS. CONTACT | | | BUS. MANAG. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 98 | 98 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 94 | 96 | 95 | 92 | 94 | 95 | 97 | 96 | 71-75 |
| 66-70 | 96 | 87 | 92 | 88 | 83 | 85 | 88 | 92 | 90 | 66-70 |
| 61-65 | 90 | 74 | 82 | 75 | 69 | 72 | 73 | 83 | 78 | 61-65 |
| 56-60 | 74 | 51 | 62 | 58 | 52 | 55 | 53 | 72 | 62 | 56-60 |
| 51-55 | 54 | 30 | 42 | 37 | 32 | 35 | 35 | 56 | 46 | 51-55 |
| 46-50 | 33 | 16 | 24 | 20 | 17 | 18 | 20 | 37 | 29 | 46-50 |
| 41-45 | 15 | 6 | 11 | 10 | 9 | 10 | 9 | 21 | 15 | 41-45 |
| 36-40 | 6 | 3 | 4 | 4 | 4 | 4 | 4 | 10 | 7 | 36-40 |
| 31-35 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 4 | 3 | 31-35 |
| 26-30 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 674 | | | 673 | | | 674 | | MEN |
| WOMEN | | 691 | | | 690 | | | 688 | | WOMEN |
| TOTAL | | 1365 | | | 1363 | | | 1362 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 52.1 | 57.6 | 54.9 | 56.0 | 57.5 | 56.8 | 56.8 | 52.1 | 54.4 | MEAN |
| S.D. | 9.1 | 9.2 | 9.6 | 9.7 | 10.2 | 10.0 | 9.7 | 10.7 | 10.5 | S.D. |

**TABLE D.2–DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)—CONTINUED**

| | BUS. DETAIL | | | HOUSEHOLD | | | CARPENTRY | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 96 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 97 | 93 | 95 | 99 | 94 | 97 | 98 | 99 | 99 | 71-75 |
| 66-70 | 93 | 83 | 88 | 99 | 87 | 93 | 95 | 99 | 97 | 66-70 |
| 61-65 | 84 | 68 | 76 | 95 | 74 | 84 | 86 | 98 | 92 | 61-65 |
| 56-60 | 68 | 50 | 59 | 86 | 53 | 69 | 70 | 94 | 82 | 56-60 |
| 51-55 | 46 | 32 | 39 | 72 | 32 | 52 | 51 | 85 | 68 | 51-55 |
| 46-50 | 26 | 16 | 21 | 52 | 18 | 35 | 33 | 70 | 52 | 46-50 |
| 41-45 | 12 | 8 | 10 | 31 | 9 | 20 | 18 | 51 | 35 | 41-45 |
| 36-40 | 5 | 4 | 4 | 17 | 5 | 11 | 7 | 30 | 19 | 36-40 |
| 31-35 | 1 | 1 | 1 | 7 | 2 | 5 | 2 | 15 | 9 | 31-35 |
| 26-30 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 6 | 4 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 20-25 |
| MEN | | 674 | | | 674 | | | 674 | | MEN |
| WOMEN | | 690 | | | 689 | | | 690 | | WOMEN |
| TOTAL | | 1364 | | | 1363 | | | 1364 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 53.8 | 57.6 | 55.8 | 47.6 | 57.1 | 52.4 | 52.4 | 42.8 | 47.6 | MEAN |
| S.D. | 9.2 | 9.8 | 9.7 | 9.6 | 10.0 | 10.9 | 9.6 | 9.2 | 10.5 | S.D. |

| | AGRICULTURE | | | MECHANICAL | | | ELECTRICAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 99 | 99 | 98 | 99 | 99 | 97 | 99 | 99 | 71-75 |
| 66-70 | 98 | 99 | 99 | 95 | 99 | 98 | 92 | 99 | 96 | 66-70 |
| 61-65 | 92 | 99 | 96 | 86 | 99 | 93 | 77 | 98 | 88 | 61-65 |
| 56-60 | 83 | 96 | 90 | 64 | 98 | 81 | 53 | 95 | 74 | 56-60 |
| 51-55 | 67 | 88 | 78 | 35 | 90 | 63 | 29 | 81 | 55 | 51-55 |
| 46-50 | 46 | 72 | 59 | 15 | 72 | 44 | 12 | 58 | 35 | 46-50 |
| 41-45 | 28 | 52 | 40 | 6 | 49 | 28 | 5 | 36 | 21 | 41-45 |
| 36-40 | 13 | 32 | 22 | 2 | 28 | 15 | 2 | 19 | 10 | 36-40 |
| 31-35 | 4 | 16 | 10 | 1 | 15 | 8 | 1 | 8 | 4 | 31-35 |
| 26-30 | 1 | 8 | 5 | 1 | 9 | 5 | 1 | 3 | 2 | 26-30 |
| 20-25 | 1 | 3 | 2 | 1 | 3 | 2 | 1 | 1 | 1 | 20-25 |
| MEN | | 672 | | | 674 | | | 673 | | MEN |
| WOMEN | | 689 | | | 691 | | | 689 | | WOMEN |
| TOTAL | | 1361 | | | 1365 | | | 1362 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 49.0 | 42.2 | 45.5 | 55.5 | 42.2 | 48.8 | 57.0 | 45.4 | 51.2 | MEAN |
| S.D. | 9.4 | 9.1 | 9.9 | 7.5 | 8.9 | 10.6 | 8.0 | 8.4 | 10.1 | S.D. |

*APPENDIX D*

**AFRO-AMERICAN/BLACK**

**TABLE D.3—DISTRIBUTION OF SPECIAL COMPETENCIES**

| | SKILLED TRADES | | | HOME ECONOMICS | | | SCIENTIFIC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 12 | 306 | 318 | 36 | 7 | 43 | 24 | 60 | 84 | 0 |
| 1 | 7 | 59 | 66 | 48 | 9 | 57 | 47 | 64 | 111 | 1 |
| 2 | 23 | 48 | 71 | 63 | 22 | 85 | 93 | 107 | 200 | 2 |
| 3 | 44 | 50 | 94 | 74 | 20 | 94 | 102 | 106 | 208 | 3 |
| 4 | 46 | 24 | 70 | 70 | 31 | 101 | 82 | 85 | 167 | 4 |
| 5 | 44 | 18 | 62 | 56 | 37 | 93 | 87 | 80 | 167 | 5 |
| 6 | 62 | 9 | 71 | 55 | 71 | 126 | 59 | 37 | 96 | 6 |
| 7-8 | 95 | 17 | 112 | 88 | 161 | 249 | 58 | 42 | 100 | 7-8 |
| 9-10 | 132 | 15 | 147 | 38 | 145 | 183 | 15 | 8 | 23 | 9-10 |
| 11-12 | 61 | 7 | 68 | 14 | 99 | 113 | | | | 11-12 |
| 13-14 | 42 | 3 | 45 | 16 | 48 | 64 | | | | 13-14 |
| OVER 14 | 51 | 10 | 61 | | | | | | | OVER 14 |
| N-CT | 619 | 566 | 1185 | 558 | 650 | 1208 | 567 | 589 | 1156 | N-CT |
| MEAN | 8.2 | 2.0 | 5.3 | 4.8 | 8.0 | 6.5 | 3.9 | 3.3 | 3.6 | MEAN |
| S.D. | 4.3 | 3.7 | 5.1 | 3.2 | 3.1 | 3.5 | 2.2 | 2.2 | 2.2 | S.D. |

| | SPORTS | | | ARTISTIC | | | COMMUNITY SERV. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 7 | 51 | 58 | 46 | 14 | 60 | 165 | 96 | 261 | 0 |
| 1 | 29 | 114 | 143 | 50 | 26 | 76 | 89 | 81 | 170 | 1 |
| 2 | 48 | 162 | 210 | 74 | 69 | 143 | 100 | 117 | 217 | 2 |
| 3 | 76 | 92 | 168 | 82 | 73 | 155 | 81 | 110 | 191 | 3 |
| 4 | 77 | 63 | 140 | 71 | 82 | 153 | 38 | 73 | 111 | 4 |
| 5 | 80 | 32 | 112 | 66 | 94 | 160 | 33 | 43 | 76 | 5 |
| 6 | 66 | 21 | 87 | 37 | 73 | 110 | 12 | 28 | 40 | 6 |
| 7-8 | 98 | 18 | 116 | 46 | 105 | 151 | 34 | 40 | 74 | 7-8 |
| 9-10 | 45 | 23 | 68 | 27 | 56 | 83 | 12 | 16 | 28 | 9-10 |
| 11-12 | 27 | 24 | 51 | 16 | 23 | 39 | | | | 11-12 |
| 13-14 | | | | 8 | 10 | 18 | | | | 13-14 |
| OVER 14 | | | | 5 | 3 | 8 | | | | OVER 14 |
| N-CT | 553 | 600 | 1153 | 528 | 628 | 1156 | 564 | 604 | 1168 | N-CT |
| MEAN | 5.3 | 3.1 | 4.2 | 4.2 | 5.4 | 4.9 | 2.3 | 2.9 | 2.6 | MEAN |
| S.D. | 2.7 | 2.7 | 2.9 | 3.2 | 3.0 | 3.1 | 2.3 | 2.3 | 2.4 | S.D. |

| | BUSINESS | | | LEADERSHIP | | | CLERICAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 13 | 37 | 50 | 43 | 38 | 81 | 48 | 54 | 102 | 0 |
| 1 | 37 | 57 | 94 | 60 | 44 | 104 | 75 | 55 | 130 | 1 |
| 2 | 59 | 114 | 173 | 68 | 100 | 168 | 81 | 87 | 168 | 2 |
| 3 | 92 | 115 | 207 | 71 | 80 | 151 | 65 | 95 | 160 | 3 |
| 4 | 78 | 86 | 164 | 48 | 86 | 134 | 59 | 72 | 131 | 4 |
| 5 | 77 | 81 | 158 | 49 | 76 | 125 | 37 | 44 | 81 | 5 |
| 6 | 61 | 43 | 104 | 32 | 40 | 72 | 31 | 46 | 77 | 6 |
| 7-8 | 46 | 30 | 76 | 46 | 82 | 128 | 39 | 68 | 107 | 7-8 |
| 9-10 | 26 | 18 | 44 | 22 | 26 | 48 | 13 | 50 | 63 | 9-10 |
| 11-12 | 11 | 9 | 20 | 14 | 11 | 25 | 6 | 22 | 28 | 11-12 |
| 13-14 | | 4 | 4 | | | | 9 | 9 | 18 | 13-14 |
| OVER 14 | 11 | 11 | 22 | | | | 7 | 4 | 11 | OVER 14 |
| N-CT | 511 | 605 | 1116 | 453 | 583 | 1036 | 470 | 606 | 1076 | N-CT |
| MEAN | 4.7 | 3.9 | 4.2 | 3.9 | 4.1 | 4.0 | 3.7 | 4.5 | 4.1 | MEAN |
| S.D. | 3.0 | 2.9 | 3.0 | 2.8 | 2.6 | 2.7 | 3.2 | 3.3 | 3.3 | S.D. |

*APPENDIX D*

**AFRO-AMERICAN/BLACK**

**TABLE D.4—DISTRIBUTION OF HIGH SCHOOL GRADES**

MEN STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 24 | 4 | 29 | 4 | 47 | 7 | 18 | 3 | 21 | 3 | 95 | 14 |
| B | 178 | 26 | 175 | 26 | 223 | 33 | 171 | 25 | 105 | 16 | 231 | 34 |
| C | 381 | 56 | 317 | 47 | 292 | 43 | 292 | 43 | 127 | 19 | 115 | 17 |
| D | 68 | 10 | 101 | 15 | 57 | 8 | 71 | 11 | 22 | 3 | 16 | 2 |
| F | 5 | 1 | 10 | 1 | 1 | | 2 | | 1 | | | |
| NOT TAKEN | 20 | 3 | 44 | 7 | 56 | 8 | 122 | 18 | 400 | 59 | 219 | 32 |
| MEAN | 2.23 | | 2.18 | | 2.42 | | 2.24 | | 2.45 | | 2.89 | |
| S.D. | .708 | | .808 | | .767 | | .724 | | .762 | | .766 | |
| NO. STUDENTS | 676 | | 676 | | 676 | | 676 | | 676 | | 676 | |

WOMEN STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 71 | 10 | 47 | 7 | 76 | 11 | 37 | 5 | 63 | 9 | 125 | 18 |
| B | 343 | 49 | 182 | 26 | 260 | 37 | 196 | 28 | 204 | 29 | 218 | 31 |
| C | 249 | 36 | 360 | 52 | 277 | 40 | 273 | 39 | 128 | 18 | 70 | 10 |
| D | 19 | 3 | 61 | 9 | 21 | 3 | 41 | 6 | 15 | 2 | 1 | |
| F | | | 3 | | | | 1 | | 1 | | | |
| NOT TAKEN | 14 | 2 | 43 | 6 | 62 | 9 | 148 | 21 | 285 | 41 | 282 | 41 |
| MEAN | 2.68 | | 2.32 | | 2.62 | | 2.41 | | 2.76 | | 3.13 | |
| S.D. | .693 | | .759 | | .736 | | .734 | | .759 | | .681 | |
| NO. STUDENTS | 696 | | 696 | | 696 | | 696 | | 696 | | 696 | |

TOTAL STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 95 | 7 | 76 | 6 | 123 | 9 | 55 | 4 | 84 | 6 | 220 | 16 |
| B | 521 | 38 | 357 | 26 | 483 | 35 | 367 | 27 | 309 | 23 | 449 | 33 |
| C | 630 | 46 | 677 | 49 | 569 | 41 | 565 | 41 | 255 | 19 | 185 | 13 |
| D | 87 | 6 | 162 | 12 | 78 | 6 | 112 | 8 | 37 | 3 | 17 | 1 |
| F | 5 | | 13 | 1 | 1 | | 3 | | 2 | | | |
| NOT TAKEN | 34 | 2 | 87 | 6 | 118 | 9 | 270 | 20 | 685 | 50 | 501 | 37 |
| MEAN | 2.46 | | 2.25 | | 2.52 | | 2.33 | | 2.63 | | 3.00 | |
| S.D. | .737 | | .786 | | .758 | | .734 | | .776 | | .737 | |
| NO. STUDENTS | 1,372 | | 1,372 | | 1,372 | | 1,372 | | 1,372 | | 1,372 | |

*APPENDIX D*

**AFRO-AMERICAN/BLACK**

**TABLE D.5—DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)**

| | | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
| ACADEMIC MOTIVATION | MEN | 672 | 6 | 64 | 24 | 7 |
| | WOMEN | 688 | 4 | 56 | 29 | 11 |
| | TOTAL | 1360 | 5 | 60 | 26 | 9 |
| ADAPTABILITY | MEN | 668 | 7 | 59 | 26 | 8 |
| | WOMEN | 694 | 6 | 62 | 26 | 6 |
| | TOTAL | 1362 | 7 | 60 | 26 | 7 |
| ARTISTIC ABILITY | MEN | 668 | 31 | 43 | 19 | 7 |
| | WOMEN | 689 | 34 | 47 | 13 | 6 |
| | TOTAL | 1357 | 33 | 45 | 16 | 6 |
| CLERICAL ABILITY | MEN | 667 | 31 | 51 | 13 | 5 |
| | WOMEN | 685 | 18 | 55 | 20 | 8 |
| | TOTAL | 1352 | 24 | 53 | 17 | 6 |
| COMMON SENSE | MEN | 669 | 4 | 45 | 36 | 15 |
| | WOMEN | 695 | 3 | 52 | 31 | 13 |
| | TOTAL | 1364 | 3 | 49 | 34 | 14 |
| COPING ABILITY | MEN | 670 | 11 | 62 | 21 | 6 |
| | WOMEN | 691 | 9 | 66 | 20 | 5 |
| | TOTAL | 1361 | 10 | 64 | 21 | 5 |
| ENGLISH ABILITY | MEN | 672 | 18 | 60 | 17 | 5 |
| | WOMEN | 692 | 10 | 67 | 17 | 5 |
| | TOTAL | 1364 | 14 | 64 | 17 | 5 |
| GETTING ALONG | MEN | 670 | 3 | 32 | 43 | 23 |
| | WOMEN | 689 | 2 | 37 | 39 | 22 |
| | TOTAL | 1359 | 3 | 34 | 41 | 22 |

*APPENDIX D*

**AFRO-AMERICAN/BLACK**

**TABLE D.5–DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)––CONTINUED**

| | | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
| LEARNING ABILITY | MEN | 670 | 6 | 65 | 23 | 6 |
| | WOMEN | 693 | 8 | 66 | 19 | 8 |
| | TOTAL | 1363 | 7 | 65 | 21 | 7 |
| LIKING SCHOOL | MEN | 673 | 9 | 55 | 26 | 11 |
| | WOMEN | 692 | 6 | 54 | 26 | 14 |
| | TOTAL | 1365 | 8 | 54 | 26 | 12 |
| MATHEMATICAL ABILITY | MEN | 672 | 22 | 52 | 19 | 6 |
| | WOMEN | 692 | 30 | 57 | 10 | 3 |
| | TOTAL | 1364 | 26 | 55 | 14 | 5 |
| MECHANICAL ABILITY | MEN | 671 | 8 | 51 | 32 | 9 |
| | WOMEN | 689 | 46 | 41 | 11 | 2 |
| | TOTAL | 1360 | 27 | 46 | 21 | 5 |
| PHYSICAL ENERGY | MEN | 670 | 9 | 42 | 33 | 16 |
| | WOMEN | 695 | 11 | 55 | 24 | 10 |
| | TOTAL | 1365 | 10 | 49 | 28 | 13 |
| SCIENTIFIC ABILITY | MEN | 668 | 31 | 52 | 12 | 5 |
| | WOMEN | 691 | 38 | 51 | 8 | 4 |
| | TOTAL | 1359 | 35 | 52 | 10 | 4 |
| SOCIAL SELF-CONFIDENCE | MEN | 669 | 11 | 53 | 25 | 11 |
| | WOMEN | 693 | 8 | 56 | 24 | 12 |
| | TOTAL | 1362 | 9 | 55 | 24 | 11 |
| WORK MOTIVATION | MEN | 660 | 2 | 34 | 44 | 20 |
| | WOMEN | 686 | 2 | 30 | 45 | 23 |
| | TOTAL | 1346 | 2 | 32 | 44 | 21 |

*APPENDIX D*

## MEXICAN/SPANISH AMERICAN

### TABLE D.1–DISTRIBUTION OF TEST SCORES (IN PERCENTILES)

| | MECHANICAL SKILLS | | | NONVERBAL REASONING | | | CLERICAL SKILLS | | | NUMERICAL COMPUTATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 71-75 |
| 66-70 | 99 | | 99 | 98 | | 98 | 98 | | 98 | 98 | | 98 | 66-70 |
| 61-65 | 96 | | 97 | 93 | | 94 | 95 | | 95 | 94 | | 94 | 61-65 |
| 56-60 | 86 | | 90 | 86 | | 87 | 90 | | 89 | 86 | | 87 | 56-60 |
| 51-55 | 68 | | 76 | 70 | | 71 | 77 | | 76 | 72 | | 73 | 51-55 |
| 46-50 | 45 | | 57 | 50 | | 51 | 58 | | 56 | 54 | | 56 | 46-50 |
| 41-45 | 23 | | 36 | 34 | | 35 | 37 | | 36 | 33 | | 34 | 41-45 |
| 36-40 | 10 | | 19 | 19 | | 18 | 17 | | 17 | 16 | | 16 | 36-40 |
| 31-35 | 4 | | 8 | 7 | | 8 | 6 | | 6 | 8 | | 8 | 31-35 |
| 26-30 | 2 | | 2 | 1 | | 2 | 2 | | 2 | 2 | | 2 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | | 344 | | | 344 | | | 344 | | | 344 | | MEN |
| WOMEN | | 142 | | | 142 | | | 142 | | | 142 | | WOMEN |
| TOTAL | | 486 | | | 486 | | | 486 | | | 486 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | M | W | T | |
| MEAN | 48.9 | | 46.4 | 47.5 | | 47.1 | 46.6 | | 46.9 | 47.1 | | 46.9 | MEAN |
| S.D. | 8.3 | | 8.9 | 9.7 | | 9.6 | 9.2 | | 9.4 | 9.5 | | 9.4 | S.D. |

| | MATHEMATICAL REASONING | | | SPACE RELATIONS | | | READING SKILLS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 71-75 |
| 66-70 | 98 | | 98 | 99 | | 99 | 99 | | 99 | 66-70 |
| 61-65 | 95 | | 95 | 94 | | 96 | 97 | | 96 | 61-65 |
| 56-60 | 88 | | 90 | 84 | | 88 | 90 | | 90 | 56-60 |
| 51-55 | 72 | | 76 | 67 | | 74 | 81 | | 81 | 51-55 |
| 46-50 | 48 | | 55 | 44 | | 53 | 64 | | 63 | 46-50 |
| 41-45 | 29 | | 36 | 26 | | 33 | 41 | | 41 | 41-45 |
| 36-40 | 16 | | 21 | 17 | | 20 | 23 | | 22 | 36-40 |
| 31-35 | 6 | | 10 | 11 | | 12 | 9 | | 9 | 31-35 |
| 26-30 | 3 | | 5 | 6 | | 6 | 2 | | 2 | 26-30 |
| 20-25 | 1 | | 3 | 2 | | 2 | 1 | | 1 | 20-25 |
| MEN | | 344 | | | 344 | | | 344 | | MEN |
| WOMEN | | 142 | | | 142 | | | 142 | | WOMEN |
| TOTAL | | 486 | | | 486 | | | 486 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 47.6 | | 46.1 | 48.1 | | 46.5 | 45.1 | | 45.2 | MEAN |
| S.D. | 9.1 | | 9.7 | 10.3 | | 10.1 | 8.7 | | 8.7 | S.D. |

*APPENDIX D*

**MEXICAN/SPANISH AMERICAN**

**TABLE D.2–DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)**

| | SCIENTIFIC | | | HEALTH | | | ARTISTIC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 98 | | 98 | 99 | | 99 | 99 | | 99 | 71-75 |
| 66-70 | 94 | | 95 | 99 | | 97 | 97 | | 96 | 66-70 |
| 61-65 | 85 | | 87 | 96 | | 92 | 91 | | 90 | 61-65 |
| 56-60 | 69 | | 74 | 88 | | 80 | 79 | | 78 | 56-60 |
| 51-55 | 47 | | 53 | 72 | | 62 | 64 | | 61 | 51-55 |
| 46-50 | 26 | | 33 | 46 | | 39 | 44 | | 41 | 46-50 |
| 41-45 | 12 | | 18 | 21 | | 18 | 22 | | 21 | 41-45 |
| 36-40 | 5 | | 8 | 8 | | 7 | 8 | | 8 | 36-40 |
| 31-35 | 1 | | 4 | 2 | | 2 | 3 | | 4 | 31-35 |
| 26-30 | 1 | | 2 | 1 | | 1 | 1 | | 1 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | | 342 | | | 342 | | | 342 | | MEN |
| WOMEN | | 141 | | | 141 | | | 141 | | WOMEN |
| TOTAL | | 483 | | | 483 | | | 483 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 54.2 | | 52.3 | 49.1 | | 50.8 | 50.1 | | 50.6 | MEAN |
| S.D. | 8.7 | | 9.6 | 7.8 | | 8.7 | 9.0 | | 9.4 | S.D. |

| | SOCIAL SERV. | | | BUS. CONTACT | | | BUS. MANAG. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 98 | 99 | | 99 | 98 | | 98 | 71-75 |
| 66-70 | 98 | | 96 | 96 | | 95 | 93 | | 94 | 66-70 |
| 61-65 | 95 | | 90 | 90 | | 88 | 82 | | 85 | 61-65 |
| 56-60 | 85 | | 76 | 79 | | 77 | 67 | | 71 | 56-60 |
| 51-55 | 68 | | 58 | 60 | | 58 | 46 | | 53 | 51-55 |
| 46-50 | 46 | | 38 | 39 | | 37 | 26 | | 35 | 46-50 |
| 41-45 | 23 | | 18 | 21 | | 20 | 15 | | 21 | 41-45 |
| 36-40 | 10 | | 7 | 7 | | 7 | 6 | | 10 | 36-40 |
| 31-35 | 3 | | 2 | 2 | | 2 | 2 | | 4 | 31-35 |
| 26-30 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | | 342 | | | 342 | | | 342 | | MEN |
| WOMEN | | 141 | | | 141 | | | 141 | | WOMEN |
| TOTAL | | 483 | | | 483 | | | 483 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 49.2 | | 51.4 | 50.8 | | 51.3 | 54.0 | | 52.1 | MEAN |
| S.D. | 8.6 | | 9.3 | 9.1 | | 9.3 | 9.7 | | 10.3 | S.D. |

*APPENDIX D*

**MEXICAN/SPANISH AMERICAN**

**TABLE D.2–DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)––CONTINUED**

| | BUS. DETAIL | | | HOUSEHOLD | | | CARPENTRY | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 9[illegible] | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 99 | | 98 | 99 | | 99 | 97 | | 98 | 71-75 |
| 66-70 | 96 | | 95 | 99 | | 96 | 93 | | 95 | 66-70 |
| 61-65 | 91 | | 86 | 98 | | 91 | 82 | | 87 | 61-65 |
| 56-60 | 79 | | 72 | 91 | | 81 | 65 | | 73 | 56-60 |
| 51-55 | 59 | | 53 | 78 | | 65 | 46 | | 57 | 51-55 |
| 46-50 | 34 | | 31 | 56 | | 45 | 28 | | 39 | 46-50 |
| 41-45 | 15 | | 15 | 32 | | 25 | 12 | | 22 | 41-45 |
| 36-40 | 6 | | 7 | 17 | | 13 | 3 | | 10 | 36-40 |
| 31-35 | 2 | | 2 | 6 | | 5 | 1 | | 5 | 31-35 |
| 26-30 | 1 | | 1 | 2 | | 1 | 1 | | 2 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | | 342 | | | 342 | | | 342 | | MEN |
| WOMEN | | 141 | | | 142 | | | 141 | | WOMEN |
| TOTAL | | 483 | | | 484 | | | 483 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 51.5 | | 52.6 | 46.8 | | 49.7 | 54.2 | | 51.1 | MEAN |
| S.D. | 8.4 | | 9.1 | 8.2 | | 9.8 | 9.2 | | 10.3 | S.D. |

| | AGRICULTURE | | | MECHANICAL | | | ELECTRICAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | | 99 | 99 | | 99 | 99 | | 99 | 76-80 |
| 71-75 | 98 | | 99 | 99 | | 99 | 97 | | 98 | 71-75 |
| 66-70 | 96 | | 96 | 94 | | 96 | 92 | | 94 | 66-70 |
| 61-65 | 89 | | 91 | 86 | | 90 | 81 | | 86 | 61-65 |
| 56-60 | 80 | | 83 | 64 | | 74 | 60 | | 71 | 56-60 |
| 51-55 | 66 | | 70 | 33 | | 49 | 34 | | 49 | 51-55 |
| 46-50 | 45 | | 49 | 14 | | 30 | 15 | | 29 | 46-50 |
| 41-45 | 25 | | 30 | 4 | | 17 | 5 | | 16 | 41-45 |
| 36-40 | 11 | | 15 | 1 | | 9 | 1 | | 7 | 36-40 |
| 31-35 | 3 | | 6 | 1 | | 4 | 1 | | 3 | 31-35 |
| 26-30 | 1 | | 2 | 1 | | 2 | 1 | | 1 | 26-30 |
| 20-25 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 20-25 |
| MEN | | 342 | | | 342 | | | 342 | | MEN |
| WOMEN | | 142 | | | 142 | | | 141 | | WOMEN |
| TOTAL | | 484 | | | 484 | | | 483 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 50.0 | | 48.5 | 55.8 | | 51.9 | 56.1 | | 52.7 | MEAN |
| S.D. | 9.7 | | 10.0 | 7.0 | | 9.7 | 7.9 | | 9.6 | S.D. |

*APPENDIX D*

**MEXICAN/SPANISH AMERICAN**

**TABLE D.3–DISTRIBUTION OF SPECIAL COMPETENCIES**

| | SKILLED TRADES | | | HOME ECONOMICS | | | SCIENTIFIC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 3 | | 78 | 42 | | 43 | 29 | | 57 | 0 |
| 1 | 5 | | 19 | 37 | | 37 | 32 | | 46 | 1 |
| 2 | 7 | | 18 | 34 | | 38 | 39 | | 70 | 2 |
| 3 | 11 | | 21 | 42 | | 47 | 48 | | 65 | 3 |
| 4 | 12 | | 19 | 39 | | 45 | 43 | | 62 | 4 |
| 5 | 14 | | 19 | 26 | | 40 | 46 | | 54 | 5 |
| 6 | 21 | | 21 | 28 | | 40 | 34 | | 42 | 6 |
| 7-8 | 32 | | 35 | 42 | | 68 | 25 | | 28 | 7-8 |
| 9-10 | 62 | | 65 | 15 | | 38 | 13 | | 15 | 9-10 |
| 11-12 | 46 | | 47 | 6 | | 35 | | | | 11-12 |
| 13-14 | 52 | | 52 | 5 | | 22 | | | | 13-14 |
| OVER 14 | 64 | | 65 | | | | | | | OVER 14 |
| N-CT | 329 | 130 | 459 | 316 | 137 | 453 | 309 | 130 | 439 | N-CT |
| MEAN | 10.5 | | 8.0 | 4.0 | | 5.4 | 3.8 | | 3.4 | MEAN |
| S.D. | 4.7 | | 5.9 | 3.1 | | 3.8 | 2.4 | | 2.4 | S.D. |

| | SPORTS | | | ARTISTIC | | | COMMUNITY SERV. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 12 | | 27 | 66 | | 72 | 140 | | 170 | 0 |
| 1 | 24 | | 47 | 50 | | 64 | 62 | | 83 | 1 |
| 2 | 23 | | 57 | 53 | | 70 | 34 | | 65 | 2 |
| 3 | 39 | | 60 | 42 | | 55 | 34 | | 51 | 3 |
| 4 | 26 | | 39 | 29 | | 50 | 21 | | 31 | 4 |
| 5 | 41 | | 48 | 21 | | 39 | 12 | | 19 | 5 |
| 6 | 34 | | 38 | 16 | | 29 | 7 | | 14 | 6 |
| 7-8 | 70 | | 73 | 21 | | 33 | 5 | | 10 | 7-8 |
| 9-10 | 35 | | 38 | 10 | | 22 | 4 | | 7 | 9-10 |
| 11-12 | 16 | | 20 | 5 | | 6 | | | | 11-12 |
| 13-14 | | | | 2 | | 5 | | | | 13-14 |
| OVER 14 | | | | 1 | | 2 | | | | OVER 14 |
| N-CT | 320 | 127 | 447 | 316 | 131 | 447 | 319 | 131 | 450 | N-CT |
| MEAN | 5.4 | | 4.7 | 3.0 | | 3.5 | 1.6 | | 1.8 | MEAN |
| S.D. | 3.0 | | 3.1 | 2.9 | | 3.0 | 2.0 | | 2.1 | S.D. |

| | BUSINESS | | | LEADERSHIP | | | CLERICAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 10 | | 20 | 67 | | 93 | 43 | | 48 | 0 |
| 1 | 30 | | 46 | 47 | | 53 | 47 | | 53 | 1 |
| 2 | 41 | | 74 | 46 | | 67 | 55 | | 67 | 2 |
| 3 | 55 | | 85 | 34 | | 55 | 37 | | 59 | 3 |
| 4 | 43 | | 58 | 28 | | 41 | 38 | | 59 | 4 |
| 5 | 44 | | 58 | 12 | | 24 | 24 | | 32 | 5 |
| 6 | 39 | | 43 | 22 | | 31 | 14 | | 23 | 6 |
| 7-8 | 25 | | 29 | 21 | | 30 | 23 | | 45 | 7-8 |
| 9-10 | 18 | | 19 | 14 | | 18 | 17 | | 30 | 9-10 |
| 11-12 | 2 | | 3 | 4 | | 5 | 5 | | 14 | 11-12 |
| 13-14 | 1 | | 2 | | | | 1 | | 3 | 13-14 |
| OVER 14 | 2 | | 2 | | | | 2 | | 2 | OVER 14 |
| N-CT | 310 | 129 | 439 | 295 | 122 | 417 | 306 | 129 | 435 | N-CT |
| MEAN | 4.3 | | 3.9 | 3.0 | | 3.0 | 3.5 | | 4.0 | MEAN |
| S.D. | 2.6 | | 2.5 | 2.8 | | 2.8 | 3.0 | | 3.2 | S.D. |

*APPENDIX D*

**MEXICAN/SPANISH AMERICAN**

**TABLE D.4—DISTRIBUTION OF HIGH SCHOOL GRADES**

MEN STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 15 | 4 | 23 | 7 | 31 | 9 | 17 | 5 | 18 | 5 | 71 | 21 |
| B | 80 | 23 | 89 | 26 | 119 | 35 | 86 | 25 | 74 | 22 | 96 | 28 |
| C | 173 | 50 | 157 | 46 | 135 | 39 | 135 | 39 | 73 | 21 | 54 | 16 |
| D | 52 | 15 | 45 | 13 | 30 | 9 | 44 | 13 | 10 | 3 | 6 | 2 |
| F | 2 | 1 | 6 | 2 | 1 | | 2 | 1 | 1 | | 1 | |
| NOT TAKEN | 22 | 6 | 24 | 7 | 28 | 8 | 60 | 17 | 168 | 49 | 116 | 34 |
| MEAN | 2.17 | | 2.24 | | 2.47 | | 2.25 | | 2.56 | | 3.01 | |
| S.D. | .770 | | .850 | | .809 | | .813 | | .774 | | .832 | |
| NO. STUDENTS | 344 | | 344 | | 344 | | 344 | | 344 | | 344 | |

WOMEN STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | | | | | | | | | | | | |
| B | | | | | | | | | | | | |
| C | | | | | | | | | | | | |
| D | | | | | | | | | | | | |
| F | | | | | | | | | | | | |
| NOT TAKEN | | | | | | | | | | | | |
| MEAN | | | | | | | | | | | | |
| S.D. | | | | | | | | | | | | |
| NO. STUDENTS | 142 | | 142 | | 142 | | 142 | | 142 | | 142 | |

TOTAL STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 23 | 5 | 32 | 7 | 44 | 9 | 24 | 5 | 41 | 8 | 95 | 20 |
| B | 138 | 28 | 128 | 26 | 175 | 36 | 123 | 25 | 124 | 26 | 142 | 29 |
| C | 236 | 49 | 219 | 45 | 193 | 40 | 200 | 41 | 107 | 22 | 72 | 15 |
| D | 59 | 12 | 64 | 13 | 39 | 8 | 55 | 11 | 17 | 3 | 7 | 1 |
| F | 2 | | 6 | 1 | 1 | | 4 | 1 | 1 | | 1 | |
| NOT TAKEN | 28 | 6 | 37 | 8 | 34 | 7 | 80 | 16 | 196 | 40 | 169 | 35 |
| MEAN | 2.26 | | 2.26 | | 2.49 | | 2.27 | | 2.64 | | 3.02 | |
| S.D. | .761 | | .836 | | .794 | | .802 | | .806 | | .802 | |
| NO. STUDENTS | 486 | | 486 | | 486 | | 486 | | 486 | | 486 | |

*APPENDIX D*

**MEXICAN/SPANISH AMERICAN**

**TABLE D.5—DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)**

| | | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
| ACADEMIC MOTIVATION | MEN | 341 | 5 | 58 | 33 | 4 |
| | WOMEN | 142 | | | | |
| | TOTAL | 483 | 5 | 56 | 32 | 6 |
| ADAPTABILITY | MEN | 340 | 5 | 56 | 35 | 4 |
| | WOMEN | 140 | | | | |
| | TOTAL | 480 | 5 | 59 | 32 | 4 |
| ARTISTIC ABILITY | MEN | 342 | 37 | 36 | 22 | 5 |
| | WOMEN | 139 | | | | |
| | TOTAL | 481 | 37 | 38 | 21 | 4 |
| CLERICAL ABILITY | MEN | 337 | 28 | 50 | 18 | 4 |
| | WOMEN | 141 | | | | |
| | TOTAL | 478 | 24 | 53 | 18 | 5 |
| COMMON SENSE | MEN | 341 | 4 | 47 | 41 | 8 |
| | WOMEN | 142 | | | | |
| | TOTAL | 483 | 4 | 50 | 39 | 7 |
| COPING ABILITY | MEN | 342 | 8 | 65 | 22 | 4 |
| | WOMEN | 142 | | | | |
| | TOTAL | 484 | 9 | 65 | 23 | 4 |
| ENGLISH ABILITY | MEN | 341 | 29 | 56 | 14 | 1 |
| | WOMEN | 141 | | | | |
| | TOTAL | 482 | 24 | 61 | 13 | 1 |
| GETTING ALONG | MEN | 341 | 4 | 40 | 42 | 14 |
| | WOMEN | 142 | | | | |
| | TOTAL | 483 | 3 | 43 | 41 | 14 |

**TABLE D.5—DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)—CONTINUED**

| | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
| LEARNING ABILITY | MEN | 342 | 6 | 65 | 25 | 3 |
| | WOMEN | 141 | | | | |
| | TOTAL | 483 | 7 | 66 | 24 | 3 |
| LIKING SCHOOL | MEN | 343 | 7 | 54 | 31 | 8 |
| | WOMEN | 142 | | | | |
| | TOTAL | 485 | 7 | 53 | 33 | 8 |
| MATHEMATICAL ABILITY | MEN | 343 | 22 | 55 | 18 | 5 |
| | WOMEN | 142 | | | | |
| | TOTAL | 485 | 27 | 54 | 15 | 4 |
| MECHANICAL ABILITY | MEN | 342 | 7 | 39 | 41 | 13 |
| | WOMEN | 142 | | | | |
| | TOTAL | 484 | 21 | 38 | 31 | 10 |
| PHYSICAL ENERGY | MEN | 341 | 6 | 38 | 42 | 14 |
| | WOMEN | 142 | | | | |
| | TOTAL | 483 | 6 | 43 | 39 | 12 |
| SCIENTIFIC ABILITY | MEN | 343 | 45 | 42 | 11 | 1 |
| | WOMEN | 142 | | | | |
| | TOTAL | 485 | 49 | 41 | 8 | 2 |
| SOCIAL SELF-CONFIDENCE | MEN | 341 | 18 | 52 | 23 | 6 |
| | WOMEN | 142 | | | | |
| | TOTAL | 483 | 18 | 53 | 23 | 6 |
| WORK MOTIVATION | MEN | 341 | 3 | 33 | 52 | 13 |
| | WOMEN | 141 | | | | |
| | TOTAL | 482 | 2 | 33 | 50 | 15 |

*APPENDIX D*

**PART-TIME STUDENTS**

**TABLE D.1–DISTRIBUTION OF TEST SCORES (IN PERCENTILES)**

| | MECHANICAL SKILLS | | | NONVERBAL REASONING | | | CLERICAL SKILLS | | | NUMERICAL COMPUTATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 99 | 99 | 99 | 98 | 99 | 97 | 98 | 98 | 99 | 97 | 98 | 71-75 |
| 66-70 | 94 | 99 | 97 | 97 | 96 | 97 | 91 | 94 | 92 | 97 | 96 | 96 | 66-70 |
| 61-65 | 87 | 99 | 91 | 91 | 90 | 91 | 85 | 88 | 86 | 91 | 91 | 91 | 61-65 |
| 56-60 | 73 | 94 | 81 | 83 | 80 | 82 | 76 | 78 | 77 | 82 | 83 | 82 | 56-60 |
| 51-55 | 52 | 84 | 64 | 66 | 65 | 66 | 61 | 61 | 61 | 66 | 67 | 67 | 51-55 |
| 46-50 | 31 | 69 | 46 | 46 | 46 | 46 | 44 | 42 | 43 | 48 | 49 | 49 | 46-50 |
| 41-45 | 16 | 47 | 28 | 28 | 29 | 29 | 27 | 25 | 26 | 29 | 28 | 28 | 41-45 |
| 36-40 | 6 | 25 | 14 | 15 | 16 | 15 | 13 | 12 | 13 | 14 | 12 | 13 | 36-40 |
| 31-35 | 2 | 10 | 5 | 6 | 7 | 7 | 6 | 6 | 6 | 7 | 5 | 6 | 31-35 |
| 26-30 | 1 | 2 | 1 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 777 | | | 777 | | | 777 | | | 777 | | MEN |
| WOMEN | | 509 | | | 509 | | | 509 | | | 509 | | WOMEN |
| TOTAL | | 1286 | | | 1286 | | | 1286 | | | 1286 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | M | W | T | |
| MEAN | 52.7 | 44.3 | 49.4 | 48.7 | 48.9 | 48.8 | 50.5 | 50.3 | 50.4 | 48.6 | 48.9 | 48.7 | MEAN |
| S.D. | 9.2 | 8.1 | 9.7 | 9.9 | 10.8 | 10.3 | 11.2 | 10.7 | 11.0 | 9.9 | 9.9 | 9.9 | S.D. |

| | MATHEMATICAL REASONING | | | SPACE RELATIONS | | | READING SKILLS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 99 | 99 | 97 | 99 | 98 | 99 | 99 | 99 | 71-75 |
| 66-70 | 97 | 98 | 97 | 92 | 99 | 95 | 96 | 96 | 96 | 66-70 |
| 61-65 | 90 | 94 | 92 | 85 | 97 | 90 | 90 | 88 | 90 | 61-65 |
| 56-60 | 80 | 87 | 83 | 73 | 91 | 80 | 80 | 74 | 78 | 56-60 |
| 51-55 | 61 | 71 | 65 | 55 | 78 | 64 | 66 | 59 | 63 | 51-55 |
| 46-50 | 39 | 49 | 43 | 36 | 57 | 44 | 48 | 43 | 46 | 46-50 |
| 41-45 | 24 | 33 | 27 | 22 | 36 | 27 | 27 | 26 | 27 | 41-45 |
| 36-40 | 13 | 21 | 16 | 13 | 21 | 16 | 13 | 12 | 12 | 36-40 |
| 31-35 | 6 | 10 | 7 | 7 | 10 | 8 | 5 | 3 | 4 | 31-35 |
| 26-30 | 3 | 6 | 4 | 4 | 4 | 4 | 1 | 1 | 1 | 26-30 |
| 20-25 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 777 | | | 777 | | | 777 | | MEN |
| WOMEN | | 509 | | | 509 | | | 509 | | WOMEN |
| TOTAL | | 1286 | | | 1286 | | | 1286 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 49.7 | 46.9 | 48.6 | 51.4 | 46.0 | 49.3 | 49.1 | 50.3 | 49.5 | MEAN |
| S.D. | 9.8 | 10.1 | 10.0 | 11.3 | 9.1 | 10.8 | 9.9 | 9.9 | 9.9 | S.D. |

*APPENDIX D*

**PART-TIME STUDENTS**

**TABLE D.2–DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)**

| | SCIENTIFIC | | | HEALTH | | | ARTISTIC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 97 | 99 | 98 | 99 | 97 | 99 | 99 | 98 | 99 | 71-75 |
| 66-70 | 93 | 99 | 95 | 99 | 91 | 96 | 98 | 94 | 96 | 66-70 |
| 61-65 | 86 | 95 | 90 | 96 | 77 | 88 | 94 | 84 | 90 | 61-65 |
| 56-60 | 73 | 87 | 79 | 90 | 56 | 77 | 85 | 68 | 78 | 56-60 |
| 51-55 | 55 | 75 | 63 | 80 | 38 | 63 | 72 | 50 | 63 | 51-55 |
| 46-50 | 35 | 56 | 44 | 59 | 23 | 45 | 52 | 31 | 44 | 46-50 |
| 41-45 | 19 | 36 | 26 | 35 | 12 | 26 | 30 | 14 | 24 | 41-45 |
| 36-40 | 8 | 19 | 13 | 18 | 5 | 13 | 15 | 6 | 11 | 36-40 |
| 31-35 | 3 | 9 | 5 | 8 | 2 | 5 | 7 | 2 | 5 | 31-35 |
| 26-30 | 1 | 4 | 2 | 3 | 1 | 2 | 2 | 1 | 2 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 775 | | | 774 | | | 775 | | MEN |
| WOMEN | | 506 | | | 505 | | | 506 | | WOMEN |
| TOTAL | | 1281 | | | 1279 | | | 1281 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 52.3 | 47.0 | 50.2 | 46.3 | 55.0 | 49.9 | 47.8 | 53.0 | 49.9 | MEAN |
| S.D. | 9.9 | 9.6 | 10.1 | 9.1 | 9.9 | 10.4 | 9.3 | 9.2 | 9.6 | S.D. |

| | SOCIAL SERV. | | | BUS. CONTACT | | | BUS. MANAG. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 98 | 99 | 99 | 99 | 99 | 98 | 99 | 98 | 71-75 |
| 66-70 | 99 | 93 | 96 | 97 | 96 | 96 | 93 | 98 | 95 | 66-70 |
| 61-65 | 97 | 83 | 92 | 92 | 88 | 91 | 85 | 94 | 89 | 61-65 |
| 56-60 | 91 | 62 | 79 | 84 | 76 | 81 | 72 | 87 | 78 | 56-60 |
| 51-55 | 78 | 40 | 63 | 69 | 57 | 64 | 55 | 75 | 63 | 51-55 |
| 46-50 | 58 | 23 | 44 | 50 | 37 | 45 | 36 | 57 | 44 | 46-50 |
| 41-45 | 36 | 10 | 26 | 31 | 20 | 27 | 20 | 36 | 26 | 41-45 |
| 36-40 | 19 | 3 | 13 | 15 | 8 | 13 | 9 | 18 | 13 | 36-40 |
| 31-35 | 8 | 1 | 5 | 6 | 3 | 5 | 4 | 8 | 6 | 31-35 |
| 26-30 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 4 | 2 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 775 | | | 774 | | | 775 | | MEN |
| WOMEN | | 506 | | | 506 | | | 506 | | WOMEN |
| TOTAL | | 1281 | | | 1280 | | | 1281 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 46.0 | 54.9 | 49.5 | 47.9 | 51.2 | 49.2 | 52.0 | 47.0 | 50.0 | MEAN |
| S.D. | 9.0 | 8.6 | 9.8 | 10.0 | 9.5 | 9.9 | 10.2 | 9.8 | 10.4 | S.D. |

**TABLE D.2—DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)—CONTINUED**

| | BUS. DETAIL | | | HOUSEHOLD | | | CARPENTRY | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 97 | 99 | 99 | 97 | 99 | 98 | 99 | 99 | 71-75 |
| 66-70 | 97 | 92 | 95 | 99 | 91 | 96 | 94 | 99 | 96 | 66-70 |
| 61-65 | 93 | 81 | 88 | 98 | 78 | 90 | 83 | 97 | 89 | 61-65 |
| 56-60 | 85 | 66 | 78 | 92 | 57 | 78 | 66 | 93 | 76 | 56-60 |
| 51-55 | 70 | 49 | 62 | 79 | 35 | 62 | 44 | 81 | 59 | 51-55 |
| 46-50 | 47 | 30 | 40 | 57 | 16 | 41 | 25 | 65 | 41 | 46-50 |
| 41-45 | 28 | 18 | 24 | 34 | 6 | 23 | 13 | 43 | 25 | 41-45 |
| 36-40 | 16 | 9 | 13 | 19 | 2 | 12 | 4 | 22 | 11 | 36-40 |
| 31-35 | 7 | 4 | 6 | 9 | 1 | 6 | 1 | 10 | 5 | 31-35 |
| 26-30 | 4 | 2 | 3 | 3 | 1 | 2 | 1 | 3 | 2 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 775 | | | 775 | | | 775 | | MEN |
| WOMEN | | 506 | | | 506 | | | 506 | | WOMEN |
| TOTAL | | 1281 | | | 1281 | | | 1281 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 48.1 | 53.0 | 50.0 | 46.1 | 56.5 | 50.2 | 54.1 | 45.0 | 50.5 | MEAN |
| S.D. | 9.7 | 10.5 | 10.3 | 8.8 | 8.5 | 10.0 | 9.0 | 8.6 | 9.9 | S.D. |

| | AGRICULTURE | | | MECHANICAL | | | ELECTRICAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 98 | 99 | 99 | 98 | 99 | 99 | 98 | 99 | 99 | 71-75 |
| 66-70 | 95 | 98 | 96 | 92 | 99 | 95 | 94 | 99 | 96 | 66-70 |
| 61-65 | 86 | 92 | 89 | 81 | 99 | 89 | 82 | 99 | 89 | 61-65 |
| 56-60 | 75 | 85 | 79 | 59 | 99 | 75 | 64 | 97 | 77 | 56-60 |
| 51-55 | 60 | 74 | 65 | 32 | 92 | 56 | 41 | 87 | 59 | 51-55 |
| 46-50 | 39 | 54 | 45 | 14 | 76 | 38 | 20 | 68 | 39 | 46-50 |
| 41-45 | 20 | 33 | 25 | 5 | 52 | 24 | 8 | 44 | 22 | 41-45 |
| 36-40 | 8 | 17 | 11 | 1 | 29 | 12 | 2 | 23 | 10 | 36-40 |
| 31-35 | 3 | 7 | 4 | 1 | 15 | 6 | 1 | 9 | 4 | 31-35 |
| 26-30 | 2 | 3 | 2 | 1 | 7 | 3 | 1 | 4 | 2 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 775 | | | 775 | | | 775 | | MEN |
| WOMEN | | 506 | | | 507 | | | 506 | | WOMEN |
| TOTAL | | 1281 | | | 1282 | | | 1281 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 51.4 | 47.4 | 49.8 | 56.4 | 41.9 | 50.7 | 54.9 | 43.8 | 50.5 | MEAN |
| S.D. | 9.8 | 9.8 | 10.0 | 7.5 | 8.0 | 10.5 | 8.2 | 8.1 | 9.8 | S.D. |

*APPENDIX D*

**PART-TIME STUDENTS**

**TABLE D.3–DISTRIBUTION OF SPECIAL COMPETENCIES**

| | SKILLED TRADES | | | HOME ECONOMICS | | | SCIENTIFIC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 6 | 181 | 187 | 68 | 1 | 69 | 64 | 39 | 103 | 0 |
| 1 | 3 | 57 | 60 | 75 | 4 | 79 | 59 | 59 | 118 | 1 |
| 2 | 16 | 50 | 66 | 87 | 10 | 97 | 102 | 99 | 201 | 2 |
| 3 | 28 | 69 | 97 | 92 | 11 | 103 | 113 | 86 | 199 | 3 |
| 4 | 21 | 31 | 52 | 85 | 13 | 98 | 98 | 69 | 167 | 4 |
| 5 | 27 | 20 | 47 | 72 | 34 | 106 | 81 | 42 | 123 | 5 |
| 6 | 31 | 10 | 41 | 75 | 27 | 102 | 83 | 28 | 111 | 6 |
| 7-8 | 79 | 11 | 90 | 100 | 80 | 180 | 89 | 37 | 126 | 7-8 |
| 9-10 | 93 | 6 | 99 | 61 | 91 | 152 | 27 | 8 | 35 | 9-10 |
| 11-12 | 97 | 11 | 108 | 18 | 120 | 138 | | | | 11-12 |
| 13-14 | 91 | 4 | 95 | 8 | 105 | 113 | | | | 13-14 |
| OVER 14 | 265 | 5 | 270 | | | | | | | OVER 14 |
| N-CT | 757 | 455 | 1212 | 741 | 496 | 1237 | 716 | 467 | 1183 | N-CT |
| MEAN | 11.8 | 2.3 | 8.3 | 4.5 | 9.5 | 6.5 | 3.9 | 3.2 | 3.7 | MEAN |
| S.D. | 5.2 | 3.2 | 6.5 | 3.1 | 3.3 | 4.0 | 2.5 | 2.2 | 2.4 | S.D. |

| | SPORTS | | | ARTISTIC | | | COMMUNITY SERV. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 25 | 45 | 70 | 120 | 18 | 138 | 320 | 83 | 403 | 0 |
| 1 | 27 | 84 | 111 | 95 | 34 | 129 | 123 | 75 | 198 | 1 |
| 2 | 60 | 116 | 176 | 136 | 41 | 177 | 99 | 90 | 189 | 2 |
| 3 | 80 | 76 | 156 | 94 | 63 | 157 | 69 | 62 | 131 | 3 |
| 4 | 112 | 53 | 165 | 76 | 59 | 135 | 43 | 43 | 86 | 4 |
| 5 | 106 | 27 | 133 | 66 | 72 | 138 | 31 | 39 | 70 | 5 |
| 6 | 104 | 22 | 126 | 50 | 42 | 92 | 17 | 28 | 45 | 6 |
| 7-8 | 130 | 24 | 154 | 57 | 73 | 130 | 17 | 41 | 58 | 7-8 |
| 9-10 | 85 | 11 | 96 | 26 | 57 | 83 | 10 | 20 | 30 | 9-10 |
| 11-12 | 21 | 5 | 26 | 14 | 22 | 36 | | | | 11-12 |
| 13-14 | | | | 5 | 7 | 12 | | | | 13-14 |
| OVER 14 | | | | 2 | | 2 | | | | OVER 14 |
| N-CT | 750 | 463 | 1213 | 741 | 488 | 1229 | 729 | 481 | 1210 | N-CT |
| MEAN | 5.3 | 2.9 | 4.4 | 3.4 | 5.3 | 4.1 | 1.6 | 3.0 | 2.2 | MEAN |
| S.D. | 2.7 | 2.3 | 2.8 | 2.9 | 3.1 | 3.1 | 2.1 | 2.6 | 2.4 | S.D. |

| | BUSINESS | | | LEADERSHIP | | | CLERICAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 12 | 19 | 31 | 133 | 41 | 174 | 80 | 21 | 101 | 0 |
| 1 | 46 | 49 | 95 | 103 | 51 | 154 | 94 | 36 | 130 | 1 |
| 2 | 79 | 87 | 166 | 112 | 82 | 194 | 125 | 47 | 172 | 2 |
| 3 | 113 | 95 | 208 | 90 | 58 | 148 | 109 | 50 | 159 | 3 |
| 4 | 119 | 88 | 207 | 100 | 53 | 153 | 72 | 47 | 119 | 4 |
| 5 | 117 | 60 | 177 | 60 | 49 | 109 | 63 | 50 | 113 | 5 |
| 6 | 79 | 43 | 122 | 38 | 46 | 84 | 58 | 37 | 95 | 6 |
| 7-8 | 101 | 31 | 132 | 65 | 63 | 128 | 69 | 83 | 152 | 7-8 |
| 9-10 | 59 | 11 | 70 | 36 | 39 | 75 | 47 | 57 | 104 | 9-10 |
| 11-12 | 22 | 2 | 24 | 10 | 6 | 16 | 20 | 44 | 64 | 11-12 |
| 13-14 | 3 | 2 | 5 | | | | 8 | 22 | 30 | 13-14 |
| OVER 14 | 5 | 4 | 9 | | | | 1 | 4 | 5 | OVER 14 |
| N-CT | 755 | 491 | 1246 | 747 | 488 | 1235 | 746 | 498 | 1244 | N-CT |
| MEAN | 5.0 | 3.8 | 4.5 | 3.3 | 4.1 | 3.6 | 3.9 | 5.9 | 4.7 | MEAN |
| S.D. | 2.8 | 2.4 | 2.7 | 2.8 | 2.8 | 2.8 | 3.1 | 3.7 | 3.5 | S.D. |

*APPENDIX D*

**PART-TIME STUDENTS**

**TABLE D.4—DISTRIBUTION OF HIGH SCHOOL GRADES**

MEN STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 23 | 3 | 45 | 6 | 46 | 6 | 43 | 6 | 47 | 6 | 141 | 18 |
| B | 218 | 28 | 189 | 24 | 227 | 29 | 177 | 23 | 123 | 16 | 199 | 26 |
| C | 368 | 47 | 344 | 44 | 341 | 44 | 320 | 41 | 149 | 19 | 124 | 16 |
| D | 107 | 14 | 119 | 15 | 65 | 8 | 94 | 12 | 31 | 4 | 16 | 2 |
| F | 14 | 2 | 13 | 2 | 9 | 1 | 10 | 1 | 7 | 1 | | |
| NOT TAKEN | 47 | 6 | 67 | 9 | 89 | 11 | 133 | 17 | 420 | 54 | 297 | 38 |
| MEAN | 2.18 | | 2.19 | | 2.34 | | 2.23 | | 2.48 | | 2.97 | |
| S.D. | .785 | | .851 | | .792 | | .835 | | .897 | | .827 | |
| NO. STUDENTS | 777 | | 777 | | 777 | | 777 | | 777 | | 777 | |

WOMEN STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 76 | 15 | 54 | 11 | 89 | 17 | 48 | 9 | 111 | 22 | 102 | 20 |
| B | 241 | 47 | 146 | 29 | 185 | 36 | 167 | 33 | 160 | 31 | 116 | 23 |
| C | 151 | 30 | 204 | 40 | 172 | 34 | 192 | 38 | 118 | 23 | 55 | 11 |
| D | 17 | 3 | 63 | 12 | 23 | 5 | 26 | 5 | 13 | 3 | 2 | |
| F | 3 | 1 | 10 | 2 | 1 | | 2 | | | | | |
| NOT TAKEN | 21 | 4 | 32 | 6 | 39 | 8 | 74 | 15 | 107 | 21 | 234 | 46 |
| MEAN | 2.76 | | 2.36 | | 2.72 | | 2.54 | | 2.92 | | 3.16 | |
| S.D. | .775 | | .920 | | .831 | | .785 | | .832 | | .759 | |
| NO. STUDENTS | 509 | | 509 | | 509 | | 509 | | 509 | | 509 | |

TOTAL STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 99 | 8 | 99 | 8 | 135 | 10 | 91 | 7 | 158 | 12 | 243 | 19 |
| B | 459 | 36 | 335 | 26 | 412 | 32 | 344 | 27 | 283 | 22 | 315 | 24 |
| C | 519 | 40 | 548 | 43 | 513 | 40 | 512 | 40 | 267 | 21 | 179 | 14 |
| D | 124 | 10 | 182 | 14 | 88 | 7 | 120 | 9 | 44 | 3 | 18 | 1 |
| F | 17 | 1 | 23 | 2 | 10 | 1 | 12 | 1 | 7 | 1 | | |
| NOT TAKEN | 68 | 5 | 99 | 8 | 128 | 10 | 207 | 16 | 527 | 41 | 531 | 41 |
| MEAN | 2.41 | | 2.26 | | 2.50 | | 2.35 | | 2.71 | | 3.04 | |
| S.D. | .832 | | .884 | | .829 | | .829 | | .890 | | .808 | |
| NO. STUDENTS | 1,286 | | 1,286 | | 1,286 | | 1,286 | | 1,286 | | 1,286 | |

*APPENDIX D*

**PART-TIME STUDENTS**

**TABLE D.5—DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)**

| | | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
| ACADEMIC MOTIVATION | MEN | 775 | 7 | 59 | 29 | 4 |
| | WOMEN | 506 | 4 | 50 | 36 | 10 |
| | TOTAL | 1281 | 6 | 55 | 32 | 7 |
| ADAPTABILITY | MEN | 771 | 6 | 52 | 35 | 7 |
| | WOMEN | 508 | 5 | 55 | 35 | 6 |
| | TOTAL | 1279 | 6 | 53 | 35 | 6 |
| ARTISTIC ABILITY | MEN | 771 | 43 | 36 | 16 | 5 |
| | WOMEN | 503 | 39 | 40 | 18 | 3 |
| | TOTAL | 1274 | 41 | 38 | 17 | 4 |
| CLERICAL ABILITY | MEN | 769 | 27 | 51 | 18 | 4 |
| | WOMEN | 508 | 14 | 54 | 25 | 8 |
| | TOTAL | 1277 | 22 | 52 | 21 | 5 |
| COMMON SENSE | MEN | 776 | 2 | 46 | 40 | 12 |
| | WOMEN | 508 | 3 | 52 | 39 | 7 |
| | TOTAL | 1284 | 2 | 48 | 39 | 10 |
| COPING ABILITY | MEN | 773 | 6 | 58 | 30 | 6 |
| | WOMEN | 507 | 8 | 59 | 27 | 6 |
| | TOTAL | 1280 | 7 | 58 | 29 | 6 |
| ENGLISH ABILITY | MEN | 772 | 31 | 54 | 13 | 2 |
| | WOMEN | 507 | 12 | 58 | 25 | 5 |
| | TOTAL | 1279 | 24 | 56 | 18 | 3 |
| GETTING ALONG | MEN | 774 | 4 | 41 | 42 | 13 |
| | WOMEN | 508 | 3 | 40 | 44 | 13 |
| | TOTAL | 1282 | 4 | 41 | 43 | 13 |

*APPENDIX D*

**PART-TIME STUDENTS**

**TABLE D.5—DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)—CONTINUED**

| | | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
| LEARNING ABILITY | MEN | 774 | 9 | 60 | 26 | 4 |
| | WOMEN | 506 | 8 | 65 | 23 | 4 |
| | TOTAL | 1280 | 9 | 62 | 25 | 4 |
| LIKING SCHOOL | MEN | 774 | 15 | 57 | 23 | 5 |
| | WOMEN | 508 | 7 | 50 | 35 | 9 |
| | TOTAL | 1282 | 12 | 54 | 28 | 6 |
| MATHEMATICAL ABILITY | MEN | 775 | 27 | 50 | 20 | 3 |
| | WOMEN | 508 | 44 | 41 | 13 | 2 |
| | TOTAL | 1283 | 34 | 47 | 17 | 2 |
| MECHANICAL ABILITY | MEN | 774 | 6 | 38 | 42 | 14 |
| | WOMEN | 506 | 49 | 40 | 10 | 2 |
| | TOTAL | 1280 | 23 | 39 | 30 | 9 |
| PHYSICAL ENERGY | MEN | 772 | 7 | 41 | 40 | 12 |
| | WOMEN | 508 | 8 | 55 | 30 | 7 |
| | TOTAL | 1280 | 7 | 47 | 36 | 10 |
| SCIENTIFIC ABILITY | MEN | 772 | 41 | 44 | 12 | 3 |
| | WOMEN | 506 | 46 | 45 | 7 | 2 |
| | TOTAL | 1278 | 43 | 44 | 10 | 3 |
| SOCIAL SELF-CONFIDENCE | MEN | 774 | 20 | 52 | 23 | 4 |
| | WOMEN | 506 | 12 | 55 | 29 | 5 |
| | TOTAL | 1280 | 17 | 53 | 25 | 4 |
| WORK MOTIVATION | MEN | 768 | 2 | 37 | 47 | 14 |
| | WOMEN | 504 | 1 | 31 | 53 | 15 |
| | TOTAL | 1272 | 2 | 34 | 50 | 14 |

*APPENDIX D*

**TRANSFER STUDENTS**

**TABLE D.1–DISTRIBUTION OF TEST SCORES (IN PERCENTILES)**

| | MECHANICAL SKILLS | | | NONVERBAL REASONING | | | CLERICAL SKILLS | | | NUMERICAL COMPUTATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 99 | 99 | 97 | 98 | 98 | 98 | 98 | 98 | 98 | 98 | 98 | 71-75 |
| 66-70 | 94 | 99 | 96 | 95 | 95 | 95 | 95 | 93 | 94 | 95 | 95 | 95 | 66-70 |
| 61-65 | 84 | 98 | 89 | 86 | 84 | 86 | 90 | 87 | 89 | 87 | 88 | 87 | 61-65 |
| 56-60 | 68 | 93 | 76 | 74 | 71 | 73 | 82 | 76 | 80 | 74 | 75 | 75 | 56-60 |
| 51-55 | 48 | 82 | 59 | 56 | 55 | 56 | 66 | 59 | 64 | 58 | 56 | 57 | 51-55 |
| 46-50 | 30 | 67 | 41 | 35 | 37 | 35 | 47 | 41 | 45 | 40 | 39 | 40 | 46-50 |
| 41-45 | 15 | 44 | 24 | 19 | 23 | 20 | 27 | 24 | 26 | 23 | 23 | 23 | 41-45 |
| 36-40 | 6 | 23 | 11 | 8 | 11 | 9 | 12 | 11 | 12 | 11 | 11 | 11 | 36-40 |
| 31-35 | 2 | 10 | 5 | 3 | 4 | 4 | 5 | 4 | 5 | 5 | 5 | 5 | 31-35 |
| 26-30 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 1333 | | | 1333 | | | 1333 | | | 1333 | | MEN |
| WOMEN | | 607 | | | 607 | | | 607 | | | 607 | | WOMEN |
| TOTAL | | 1940 | | | 1940 | | | 1940 | | | 1940 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | M | W | T | |
| MEAN | 53.4 | 44.8 | 50.7 | 51.7 | 51.4 | 51.6 | 49.5 | 50.9 | 49.9 | 50.6 | 50.8 | 50.7 | MEAN |
| S.D. | 9.3 | 8.6 | 9.9 | 9.8 | 10.4 | 10.0 | 10.2 | 10.5 | 10.3 | 10.2 | 10.2 | 10.2 | S.D. |

| | MATHEMATICAL REASONING | | | SPACE RELATIONS | | | READING SKILLS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 98 | 99 | 98 | 98 | 99 | 99 | 99 | 98 | 99 | 71-75 |
| 66-70 | 92 | 97 | 93 | 95 | 99 | 96 | 97 | 94 | 96 | 66-70 |
| 61-65 | 82 | 91 | 85 | 89 | 96 | 91 | 88 | 85 | 87 | 61-65 |
| 56-60 | 70 | 82 | 74 | 74 | 87 | 78 | 73 | 71 | 73 | 56-60 |
| 51-55 | 51 | 65 | 55 | 53 | 69 | 58 | 57 | 55 | 56 | 51-55 |
| 46-50 | 30 | 42 | 34 | 34 | 49 | 38 | 38 | 40 | 39 | 46-50 |
| 41-45 | 18 | 26 | 20 | 20 | 31 | 23 | 22 | 23 | 22 | 41-45 |
| 36-40 | 11 | 16 | 12 | 11 | 17 | 13 | 10 | 10 | 10 | 36-40 |
| 31-35 | 5 | 7 | 6 | 6 | 9 | 7 | 4 | 4 | 4 | 31-35 |
| 26-30 | 3 | 4 | 3 | 3 | 4 | 3 | 2 | 1 | 2 | 26-30 |
| 20-25 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 1333 | | | 1333 | | | 1333 | | MEN |
| WOMEN | | 607 | | | 607 | | | 607 | | WOMEN |
| TOTAL | | 1940 | | | 1940 | | | 1940 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 52.3 | 48.9 | 51.3 | 51.5 | 47.4 | 50.2 | 50.8 | 51.2 | 50.9 | MEAN |
| S.D. | 10.7 | 10.0 | 10.6 | 10.3 | 9.2 | 10.2 | 10.1 | 10.7 | 10.2 | S.D. |

*APPENDIX D*

**TRANSFER STUDENTS**

**TABLE D.2–DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)**

| | SCIENTIFIC | | | HEALTH | | | ARTISTIC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 98 | 99 | 99 | 99 | 99 | 99 | 98 | 97 | 98 | 71-75 |
| 66-70 | 93 | 98 | 95 | 99 | 97 | 98 | 95 | 90 | 93 | 66-70 |
| 61-65 | 83 | 95 | 87 | 96 | 91 | 95 | 88 | 76 | 84 | 61-65 |
| 56-60 | 68 | 88 | 74 | 89 | 76 | 85 | 74 | 57 | 69 | 56-60 |
| 51-55 | 48 | 75 | 56 | 73 | 55 | 68 | 57 | 37 | 51 | 51-55 |
| 46-50 | 28 | 56 | 37 | 49 | 33 | 44 | 38 | 20 | 33 | 46-50 |
| 41-45 | 15 | 37 | 21 | 25 | 17 | 22 | 19 | 8 | 16 | 41-45 |
| 36-40 | 6 | 21 | 11 | 9 | 8 | 9 | 8 | 3 | 6 | 36-40 |
| 31-35 | 3 | 10 | 5 | 3 | 3 | 3 | 3 | 1 | 2 | 31-35 |
| 26-30 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 1319 | | | 1317 | | | 1319 | | MEN |
| WOMEN | | 600 | | | 600 | | | 600 | | WOMEN |
| TOTAL | | 1919 | | | 1917 | | | 1919 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 53.7 | 46.8 | 51.6 | 48.4 | 51.7 | 49.5 | 51.5 | 56.1 | 52.9 | MEAN |
| S.D. | 9.7 | 9.8 | 10.3 | 7.8 | 8.9 | 8.3 | 9.6 | 9.1 | 9.7 | S.D. |

| | SOCIAL SERV. | | | BUS. CONTACT | | | BUS. MANAG. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 97 | 98 | 99 | 99 | 99 | 98 | 99 | 99 | 71-75 |
| 66-70 | 98 | 91 | 96 | 96 | 94 | 95 | 95 | 98 | 96 | 66-70 |
| 61-65 | 94 | 78 | 89 | 90 | 86 | 88 | 85 | 93 | 88 | 61-65 |
| 56-60 | 82 | 54 | 73 | 78 | 71 | 76 | 69 | 84 | 74 | 56-60 |
| 51-55 | 65 | 30 | 54 | 59 | 49 | 56 | 50 | 70 | 56 | 51-55 |
| 46-50 | 44 | 15 | 35 | 39 | 29 | 36 | 31 | 53 | 38 | 46-50 |
| 41-45 | 23 | 6 | 17 | 22 | 16 | 20 | 15 | 33 | 21 | 41-45 |
| 36-40 | 10 | 2 | 7 | 9 | 6 | 8 | 6 | 15 | 8 | 36-40 |
| 31-35 | 3 | 1 | 2 | 3 | 2 | 3 | 2 | 6 | 3 | 31-35 |
| 26-30 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 1316 | | | 1318 | | | 1305 | | MEN |
| WOMEN | | 601 | | | 601 | | | 597 | | WOMEN |
| TOTAL | | 1917 | | | 1919 | | | 1902 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 49.5 | 57.0 | 51.9 | 50.6 | 52.7 | 51.3 | 53.1 | 48.0 | 51.5 | MEAN |
| S.D. | 8.8 | 8.4 | 9.4 | 9.5 | 9.2 | 9.5 | 9.1 | 9.5 | 9.5 | S.D. |

**TABLE D.2–DISTRIBUTION OF VOCATIONAL INTERESTS (IN PERCENTILES)––CONTINUED**

| SCORE | BUS. DETAIL M | BUS. DETAIL W | BUS. DETAIL T | HOUSEHOLD M | HOUSEHOLD W | HOUSEHOLD T | CARPENTRY M | CARPENTRY W | CARPENTRY T | SCORE |
|---|---|---|---|---|---|---|---|---|---|---|
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 99 | 99 | 99 | 97 | 99 | 98 | 99 | 99 | 71-75 |
| 66-70 | 98 | 94 | 97 | 99 | 93 | 98 | 96 | 99 | 97 | 66-70 |
| 61-65 | 94 | 85 | 91 | 99 | 84 | 94 | 89 | 98 | 92 | 61-65 |
| 56-60 | 85 | 73 | 81 | 94 | 63 | 84 | 73 | 93 | 80 | 56-60 |
| 51-55 | 69 | 56 | 65 | 84 | 39 | 70 | 52 | 81 | 61 | 51-55 |
| 46-50 | 46 | 35 | 42 | 62 | 20 | 49 | 33 | 64 | 43 | 46-50 |
| 41-45 | 26 | 20 | 24 | 37 | 8 | 28 | 17 | 43 | 25 | 41-45 |
| 36-40 | 12 | 10 | 11 | 19 | 3 | 14 | 6 | 21 | 11 | 36-40 |
| 31-35 | 4 | 4 | 4 | 8 | 1 | 6 | 2 | 9 | 4 | 31-35 |
| 26-30 | 2 | 1 | 2 | 3 | 1 | 2 | 1 | 4 | 1 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20-25 |
| MEN | | 1312 | | | 1320 | | | 1314 | | MEN |
| WOMEN | | 599 | | | 601 | | | 601 | | WOMEN |
| TOTAL | | 1911 | | | 1921 | | | 1915 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 48.7 | 51.6 | 49.6 | 45.3 | 55.3 | 48.4 | 52.2 | 44.9 | 49.9 | MEAN |
| S.D. | 8.9 | 9.8 | 9.3 | 7.9 | 8.6 | 9.4 | 8.8 | 8.6 | 9.4 | S.D. |

| SCORE | AGRICULTURE M | AGRICULTURE W | AGRICULTURE T | MECHANICAL M | MECHANICAL W | MECHANICAL T | ELECTRICAL M | ELECTRICAL W | ELECTRICAL T | SCORE |
|---|---|---|---|---|---|---|---|---|---|---|
| 76-80 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 76-80 |
| 71-75 | 99 | 99 | 99 | 99 | 99 | 99 | 98 | 99 | 99 | 71-75 |
| 66-70 | 97 | 98 | 97 | 97 | 99 | 98 | 95 | 99 | 96 | 66-70 |
| 61-65 | 90 | 94 | 91 | 91 | 99 | 94 | 84 | 99 | 89 | 61-65 |
| 56-60 | 80 | 87 | 83 | 74 | 98 | 81 | 67 | 98 | 77 | 56-60 |
| 51-55 | 65 | 76 | 68 | 46 | 91 | 60 | 44 | 88 | 58 | 51-55 |
| 46-50 | 41 | 56 | 46 | 22 | 73 | 38 | 23 | 68 | 37 | 46-50 |
| 41-45 | 22 | 34 | 26 | 9 | 51 | 22 | 9 | 44 | 20 | 41-45 |
| 36-40 | 9 | 17 | 12 | 3 | 30 | 11 | 3 | 24 | 9 | 36-40 |
| 31-35 | 3 | 7 | 4 | 1 | 17 | 6 | 1 | 11 | 4 | 31-35 |
| 26-30 | 1 | 3 | 2 | 1 | 10 | 3 | 1 | 5 | 2 | 26-30 |
| 20-25 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 2 | 1 | 20-25 |
| MEN | | 1315 | | | 1321 | | | 1313 | | MEN |
| WOMEN | | 601 | | | 601 | | | 601 | | WOMEN |
| TOTAL | | 1916 | | | 1922 | | | 1914 | | TOTAL |
| | M | W | T | M | W | T | M | W | T | |
| MEAN | 50.2 | 47.0 | 49.2 | 53.5 | 41.8 | 49.8 | 54.2 | 43.5 | 50.8 | MEAN |
| S.D. | 9.0 | 9.5 | 9.3 | 7.4 | 8.9 | 9.6 | 8.3 | 8.2 | 9.7 | S.D. |

*APPENDIX D*

**TRANSFER STUDENTS**

**TABLE D.3–DISTRIBUTION OF SPECIAL COMPETENCIES**

| | SKILLED TRADES | | | HOME ECONOMICS | | | SCIENTIFIC | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 28 | 261 | 289 | 169 | 1 | 170 | 57 | 54 | 111 | 0 |
| 1 | 23 | 77 | 100 | 167 | 2 | 169 | 96 | 80 | 176 | 1 |
| 2 | 33 | 72 | 105 | 196 | 20 | 216 | 170 | 96 | 266 | 2 |
| 3 | 83 | 53 | 136 | 160 | 33 | 193 | 166 | 83 | 249 | 3 |
| 4 | 76 | 21 | 97 | 137 | 30 | 167 | 176 | 66 | 242 | 4 |
| 5 | 54 | 8 | 62 | 104 | 45 | 149 | 175 | 67 | 242 | 5 |
| 6 | 84 | 12 | 96 | 94 | 49 | 143 | 144 | 55 | 199 | 6 |
| 7-8 | 158 | 14 | 172 | 115 | 125 | 240 | 177 | 38 | 215 | 7-8 |
| 9-10 | 138 | 7 | 145 | 67 | 115 | 182 | 79 | 17 | 96 | 9-10 |
| 11-12 | 164 | 21 | 185 | 30 | 111 | 141 | | | | 11-12 |
| 13-14 | 168 | 2 | 170 | 12 | 58 | 70 | | | | 13-14 |
| OVER 14 | 276 | 6 | 282 | | | | | | | OVER 14 |
| N-CT | 1285 | 554 | 1839 | 1251 | 589 | 1840 | 1240 | 556 | 1796 | N-CT |
| MEAN | 10.0 | 2.0 | 7.6 | 3.7 | 8.3 | 5.2 | 4.4 | 3.4 | 4.1 | MEAN |
| S.D. | 5.3 | 3.4 | 6.1 | 3.0 | 3.3 | 3.8 | 2.5 | 2.4 | 2.5 | S.D. |

| | SPORTS | | | ARTISTIC | | | COMMUNITY SERV. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 20 | 49 | 69 | 137 | 14 | 151 | 519 | 115 | 634 | 0 |
| 1 | 38 | 93 | 131 | 151 | 25 | 176 | 217 | 91 | 308 | 1 |
| 2 | 106 | 114 | 220 | 168 | 65 | 233 | 174 | 100 | 274 | 2 |
| 3 | 147 | 108 | 255 | 185 | 52 | 237 | 138 | 84 | 222 | 3 |
| 4 | 146 | 70 | 216 | 149 | 69 | 218 | 64 | 76 | 140 | 4 |
| 5 | 173 | 56 | 229 | 94 | 70 | 164 | 54 | 32 | 86 | 5 |
| 6 | 146 | 29 | 175 | 105 | 74 | 179 | 32 | 37 | 69 | 6 |
| 7-8 | 267 | 32 | 299 | 124 | 111 | 235 | 38 | 28 | 66 | 7-8 |
| 9-10 | 155 | 7 | 162 | 69 | 63 | 132 | 12 | 13 | 25 | 9-10 |
| 11-12 | 48 | 12 | 60 | 28 | 29 | 57 | | | | 11-12 |
| 13-14 | | | | 11 | 16 | 27 | | | | 13-14 |
| OVER 14 | | | | 4 | 2 | 6 | | | | OVER 14 |
| N-CT | 1246 | 570 | 1816 | 1225 | 590 | 1815 | 1248 | 576 | 1824 | N-CT |
| MEAN | 5.6 | 3.2 | 4.9 | 3.9 | 5.7 | 4.5 | 1.7 | 2.7 | 2.0 | MEAN |
| S.D. | 2.7 | 2.4 | 2.8 | 3.0 | 3.1 | 3.2 | 2.1 | 2.3 | 2.2 | S.D. |

| | BUSINESS | | | LEADERSHIP | | | CLERICAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SCORE | M | W | T | M | W | T | M | W | T | SCORE |
| 0 | 18 | 28 | 46 | 155 | 33 | 188 | 127 | 47 | 174 | 0 |
| 1 | 71 | 74 | 145 | 129 | 54 | 183 | 186 | 61 | 247 | 1 |
| 2 | 126 | 95 | 221 | 190 | 85 | 275 | 224 | 67 | 291 | 2 |
| 3 | 190 | 127 | 317 | 172 | 82 | 254 | 183 | 79 | 262 | 3 |
| 4 | 204 | 87 | 291 | 144 | 85 | 229 | 130 | 74 | 204 | 4 |
| 5 | 185 | 72 | 257 | 114 | 73 | 187 | 113 | 57 | 170 | 5 |
| 6 | 139 | 50 | 189 | 90 | 53 | 143 | 73 | 42 | 115 | 6 |
| 7-8 | 186 | 28 | 214 | 106 | 62 | 168 | 92 | 67 | 159 | 7-8 |
| 9-10 | 60 | 10 | 70 | 63 | 40 | 103 | 49 | 54 | 103 | 9-10 |
| 11-12 | 27 | 5 | 32 | 22 | 12 | 34 | 23 | 16 | 39 | 11-12 |
| 13-14 | 9 | | 9 | | | | 7 | 13 | 20 | 13-14 |
| OVER 14 | 8 | 3 | 11 | | | | 2 | 2 | 4 | OVER 14 |
| N-CT | 1223 | 579 | 1802 | 1185 | 579 | 1764 | 1209 | 579 | 1788 | N-CT |
| MEAN | 4.9 | 3.6 | 4.5 | 3.7 | 4.3 | 3.9 | 3.5 | 4.6 | 3.9 | MEAN |
| S.D. | 2.7 | 2.3 | 2.6 | 2.8 | 2.7 | 2.8 | 2.8 | 3.3 | 3.0 | S.D. |

*APPENDIX D*

**TRANSFER STUDENTS**

**TABLE D.4–DISTRIBUTION OF HIGH SCHOOL GRADES**

MEN STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 89 | 7 | 99 | 7 | 142 | 11 | 101 | 8 | 112 | 8 | 238 | 18 |
| B | 401 | 30 | 275 | 21 | 461 | 35 | 344 | 26 | 273 | 20 | 318 | 24 |
| C | 660 | 50 | 618 | 46 | 559 | 42 | 596 | 45 | 290 | 22 | 180 | 14 |
| D | 142 | 11 | 237 | 18 | 90 | 7 | 141 | 11 | 48 | 4 | 23 | 2 |
| F | 9 | 1 | 47 | 4 | 11 | 1 | 19 | 1 | 5 | | 3 | |
| NOT TAKEN | 32 | 2 | 57 | 4 | 70 | 5 | 132 | 10 | 605 | 45 | 571 | 43 |
| MEAN | 2.32 | | 2.11 | | 2.50 | | 2.31 | | 2.60 | | 3.00 | |
| S.D. | .784 | | .920 | | .818 | | .843 | | .849 | | .839 | |
| NO. STUDENTS | 1,333 | | 1,333 | | 1,333 | | 1,333 | | 1,333 | | 1,333 | |

WOMEN STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 132 | 22 | 51 | 8 | 134 | 22 | 58 | 10 | 148 | 24 | 117 | 19 |
| B | 253 | 42 | 152 | 25 | 238 | 39 | 198 | 33 | 159 | 26 | 152 | 25 |
| C | 189 | 31 | 254 | 42 | 177 | 29 | 239 | 39 | 124 | 20 | 57 | 9 |
| D | 18 | 3 | 100 | 16 | 29 | 5 | 49 | 8 | 17 | 3 | 3 | |
| F | | | 12 | 2 | 1 | | 7 | 1 | 3 | | | |
| NOT TAKEN | 15 | 2 | 38 | 6 | 28 | 5 | 56 | 9 | 156 | 26 | 278 | 46 |
| MEAN | 2.84 | | 2.23 | | 2.82 | | 2.46 | | 2.96 | | 3.16 | |
| S.D. | .799 | | .913 | | .849 | | .844 | | .901 | | .734 | |
| NO. STUDENTS | 607 | | 607 | | 607 | | 607 | | 607 | | 607 | |

TOTAL STUDENTS

| | ENGLISH | | MATH | | SOC. S. | | N. SCI. | | BUSINESS | | VOCATIONAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC | FREQ | PC |
| A | 221 | 11 | 150 | 8 | 276 | 14 | 159 | 8 | 260 | 13 | 355 | 18 |
| B | 654 | 34 | 427 | 22 | 699 | 36 | 542 | 28 | 432 | 22 | 470 | 24 |
| C | 849 | 44 | 872 | 45 | 736 | 38 | 835 | 43 | 414 | 21 | 237 | 12 |
| D | 160 | 8 | 337 | 17 | 119 | 6 | 190 | 10 | 65 | 3 | 26 | 1 |
| F | 9 | | 59 | 3 | 12 | 1 | 26 | 1 | 8 | | 3 | |
| NOT TAKEN | 47 | 2 | 95 | 5 | 98 | 5 | 188 | 10 | 761 | 39 | 849 | 44 |
| MEAN | 2.48 | | 2.15 | | 2.60 | | 2.35 | | 2.74 | | 3.05 | |
| S.D. | .825 | | .919 | | .841 | | .846 | | .886 | | .812 | |
| NO. STUDENTS | 1,940 | | 1,940 | | 1,940 | | 1,940 | | 1,940 | | 1,940 | |

*APPENDIX D*

**TRANSFER STUDENTS**

**TABLE D.5—DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)**

| | | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
| ACADEMIC MOTIVATION | MEN | 1328 | 6 | 57 | 31 | 6 |
| | WOMEN | 605 | 3 | 44 | 41 | 11 |
| | TOTAL | 1933 | 5 | 53 | 34 | 8 |
| ADAPTABILITY | MEN | 1327 | 4 | 51 | 38 | 7 |
| | WOMEN | 605 | 4 | 54 | 37 | 6 |
| | TOTAL | 1932 | 4 | 52 | 37 | 7 |
| ARTISTIC ABILITY | MEN | 1329 | 31 | 37 | 25 | 7 |
| | WOMEN | 604 | 28 | 42 | 23 | 7 |
| | TOTAL | 1933 | 30 | 39 | 25 | 7 |
| CLERICAL ABILITY | MEN | 1323 | 27 | 54 | 16 | 3 |
| | WOMEN | 605 | 20 | 53 | 23 | 4 |
| | TOTAL | 1928 | 25 | 54 | 18 | 3 |
| COMMON SENSE | MEN | 1330 | 1 | 41 | 45 | 13 |
| | WOMEN | 606 | 2 | 49 | 39 | 10 |
| | TOTAL | 1936 | 1 | 43 | 43 | 12 |
| COPING ABILITY | MEN | 1327 | 5 | 57 | 33 | 5 |
| | WOMEN | 604 | 6 | 59 | 28 | 6 |
| | TOTAL | 1931 | 6 | 58 | 31 | 5 |
| ENGLISH ABILITY | MEN | 1329 | 22 | 58 | 16 | 4 |
| | WOMEN | 607 | 10 | 53 | 29 | 7 |
| | TOTAL | 1936 | 18 | 56 | 20 | 5 |
| GETTING ALONG | MEN | 1323 | 2 | 44 | 41 | 14 |
| | WOMEN | 607 | 1 | 35 | 49 | 15 |
| | TOTAL | 1930 | 2 | 41 | 43 | 14 |

**TABLE D.5—DISTRIBUTION OF SELF-ESTIMATES OF SKILLS (IN PERCENTAGES)—CONTINUED**

| | | | HOW THE STUDENTS THINK THEY COMPARE WITH PERSONS THEIR OWN AGE | | | |
|---|---|---|---|---|---|---|
| TRAITS | SEX | N-CT | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | TOP TEN PERCENT |
| LEARNING ABILITY | MEN | 1331 | 7 | 61 | 28 | 4 |
| | WOMEN | 606 | 5 | 63 | 28 | 4 |
| | TOTAL | 1937 | 6 | 62 | 28 | 4 |
| LIKING SCHOOL | MEN | 1330 | 10 | 59 | 25 | 5 |
| | WOMEN | 607 | 6 | 47 | 35 | 12 |
| | TOTAL | 1937 | 9 | 55 | 29 | 7 |
| MATHEMATICAL ABILITY | MEN | 1330 | 29 | 46 | 21 | 4 |
| | WOMEN | 607 | 42 | 45 | 10 | 3 |
| | TOTAL | 1937 | 33 | 46 | 17 | 4 |
| MECHANICAL ABILITY | MEN | 1332 | 8 | 41 | 40 | 11 |
| | WOMEN | 607 | 48 | 44 | 7 | 1 |
| | TOTAL | 1939 | 21 | 42 | 30 | 8 |
| PHYSICAL ENERGY | MEN | 1331 | 5 | 43 | 38 | 15 |
| | WOMEN | 607 | 9 | 54 | 30 | 7 |
| | TOTAL | 1938 | 6 | 46 | 35 | 12 |
| SCIENTIFIC ABILITY | MEN | 1327 | 32 | 50 | 15 | 3 |
| | WOMEN | 605 | 44 | 47 | 8 | 1 |
| | TOTAL | 1932 | 36 | 49 | 13 | 2 |
| SOCIAL SELF-CONFIDENCE | MEN | 1331 | 18 | 55 | 22 | 5 |
| | WOMEN | 605 | 10 | 56 | 27 | 6 |
| | TOTAL | 1936 | 15 | 55 | 24 | 6 |
| WORK MOTIVATION | MEN | 1325 | 2 | 37 | 48 | 12 |
| | WOMEN | 602 | 1 | 37 | 50 | 13 |
| | TOTAL | 1927 | 2 | 37 | 48 | 13 |

# APPENDIX E

## PROGRAM CLUSTER PROFILES

The norms included in this section were developed with data obtained from students who had entered but had not necessarily completed programs in one of the following clusters:

Agriculture, Forestry, and Maritime

Persuasion and Marketing

Health

Home Economics

Business and Office

Science, Engineering, and Technology

Trade and Industrial

Social Science and Public Service

Arts and Humanities/Vocational-technical courses

Transfer

Male and female profiles are reported for each program cluster except the male Home Economics and the female Science, Engineering, and Technology cluster. Sufficient sample sizes were not available to report reliable data for these two clusters. The sample size for the other program cluster profiles are reported on each profile sheet.

### Description of the Profiles

For each measure, the light line represents the range between the 10th and 90th percentiles. The bold bar represents the middle fifty percent of scores covering the range of 25th to 75th percentile and the horizontal slash represents the 50th percentile. The percentiles were used in developing the profiles rather than the means and standard deviations because the percentiles are sensitive to skewness in the distribution.

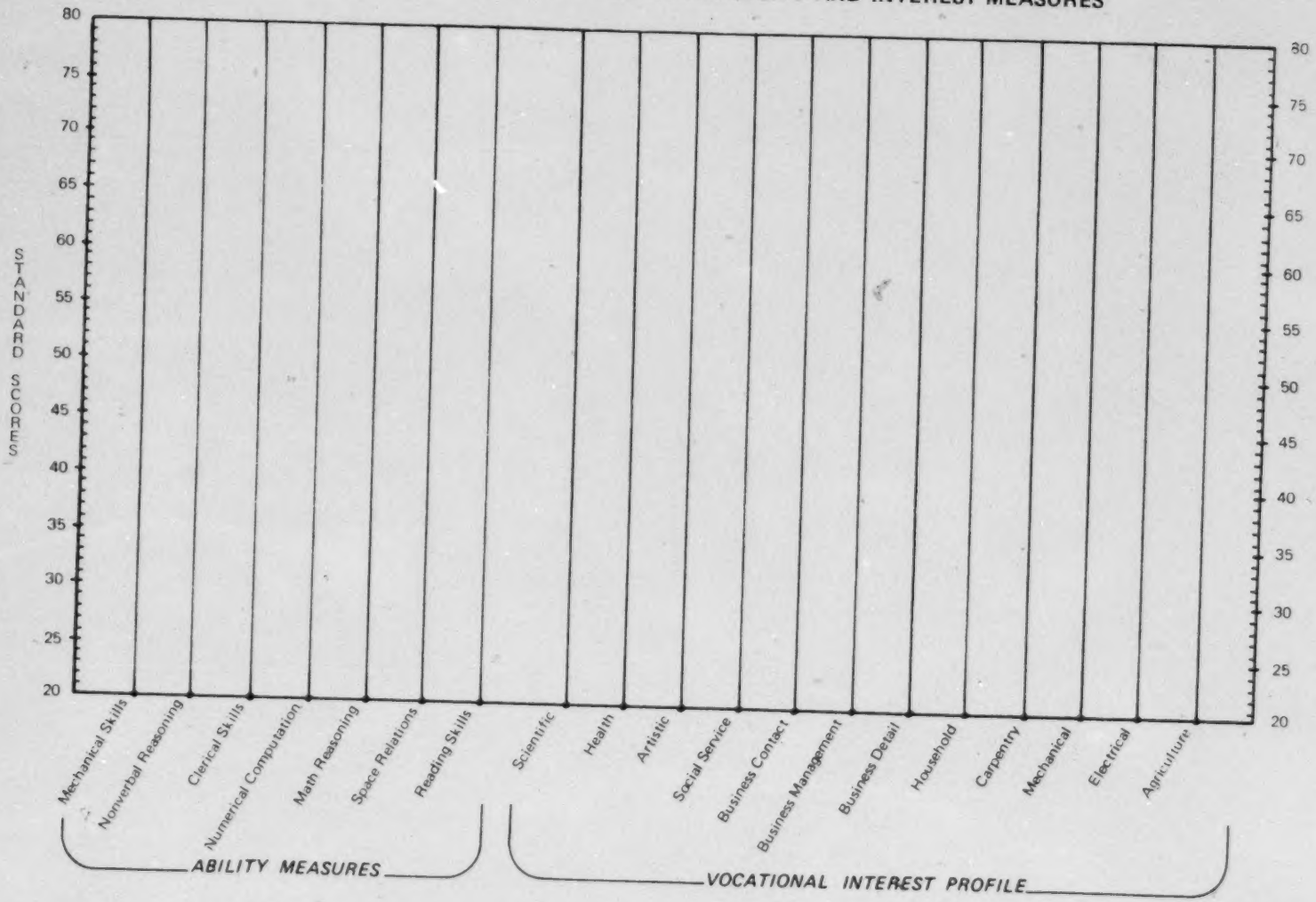
A blank profile sheet has been included for reproduction and plotting individual student scores.

### Cautions

Program cluster profiles should not be treated as absolutes, rather they should be used as tools to facilitate career exploration. The norms presented in this appendix were developed on students who entered a given program area. One would logically expect they would be relevant to satisfaction and success in that program, but such a relationship cannot be guaranteed. An additional caution is that a student's abilities and interests must always be considered in the context of other information relevant to the exploration of career possibilities.

*FIGURE E.0*

**STUDENT PROFILE SHEET FOR PLOTTING ABILITY AND INTEREST MEASURES**






*THIS PROFILE MAY BE REPRODUCED FOR COUNSELING USE.*

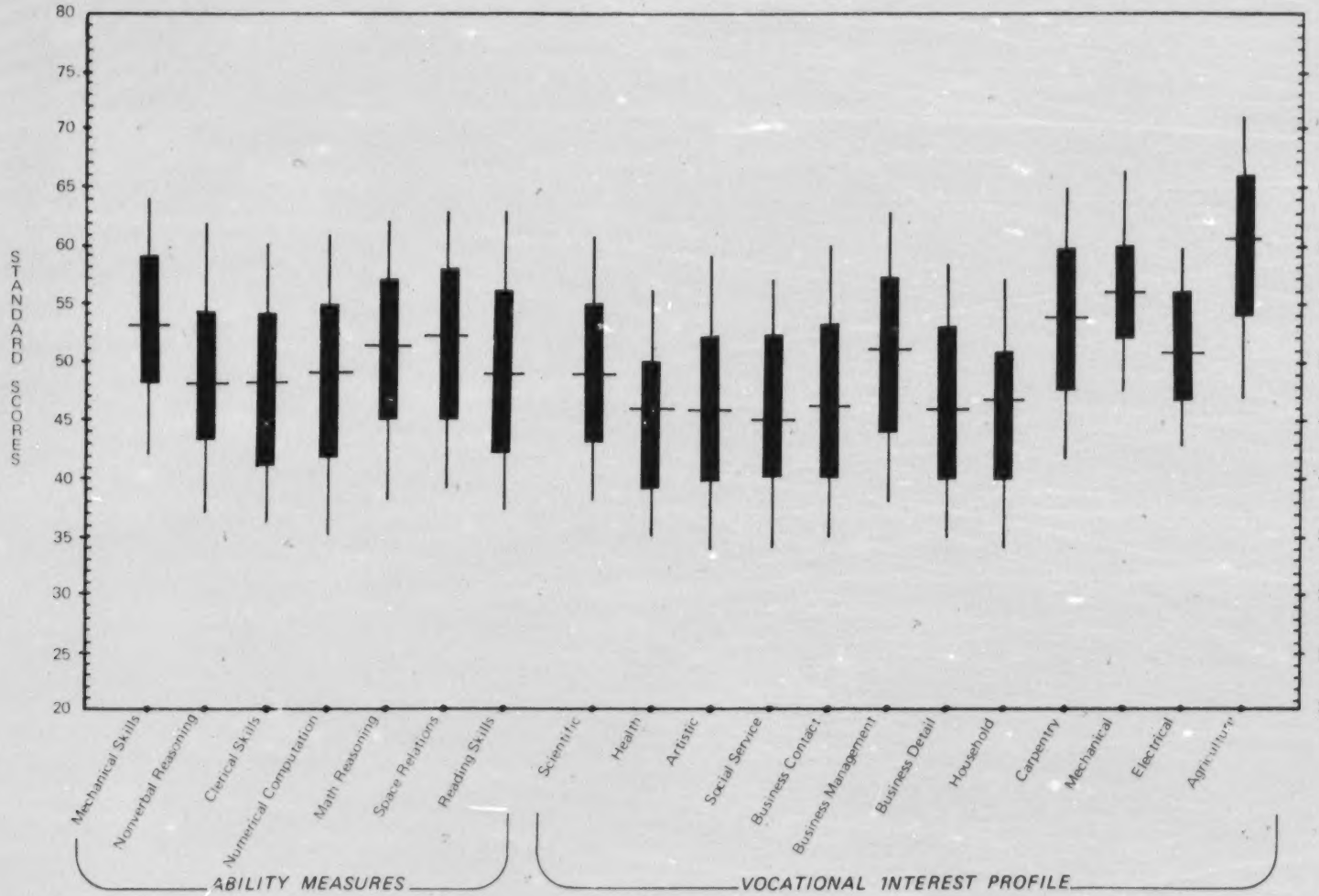


*APPENDIX E*
**STUDENT PROFILE SHEET**

FILM THIS

*FIGURE E.1*

**PROGRAM CLUSTER PROFILES FOR ABILITY MEASURES AND VOCATIONAL INTEREST PROFILE SCALES**




*APPENDIX E*
**AGRICULTURE FORESTRY, AND MARITIME CLUSTER**
*MALE*

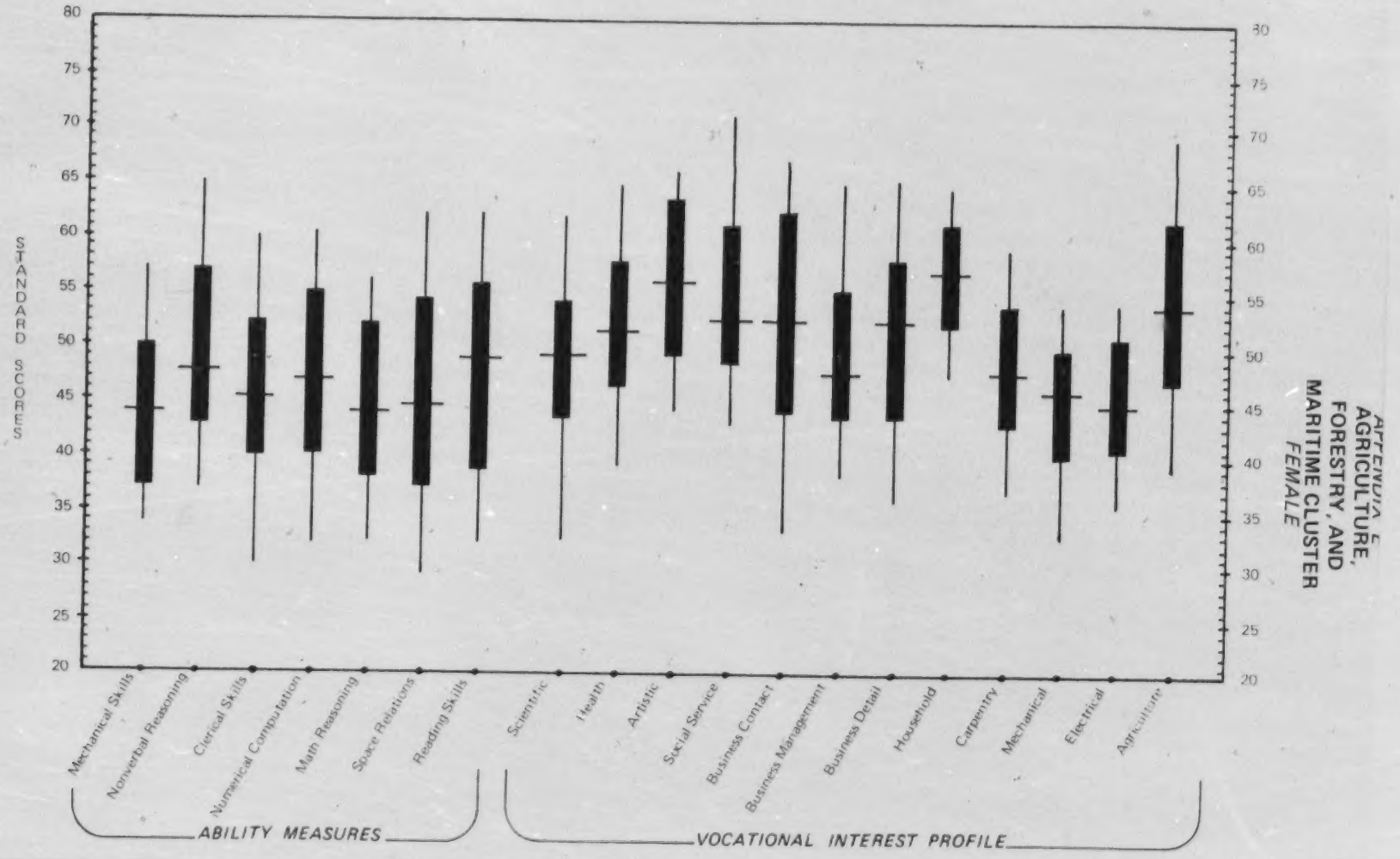


N = 1048

N = 1051

*FIGURE E.2*

**PROGRAM CLUSTER PROFILES FOR ABILITY MEASURES AND VOCATIONAL INTEREST PROFILE SCALES**

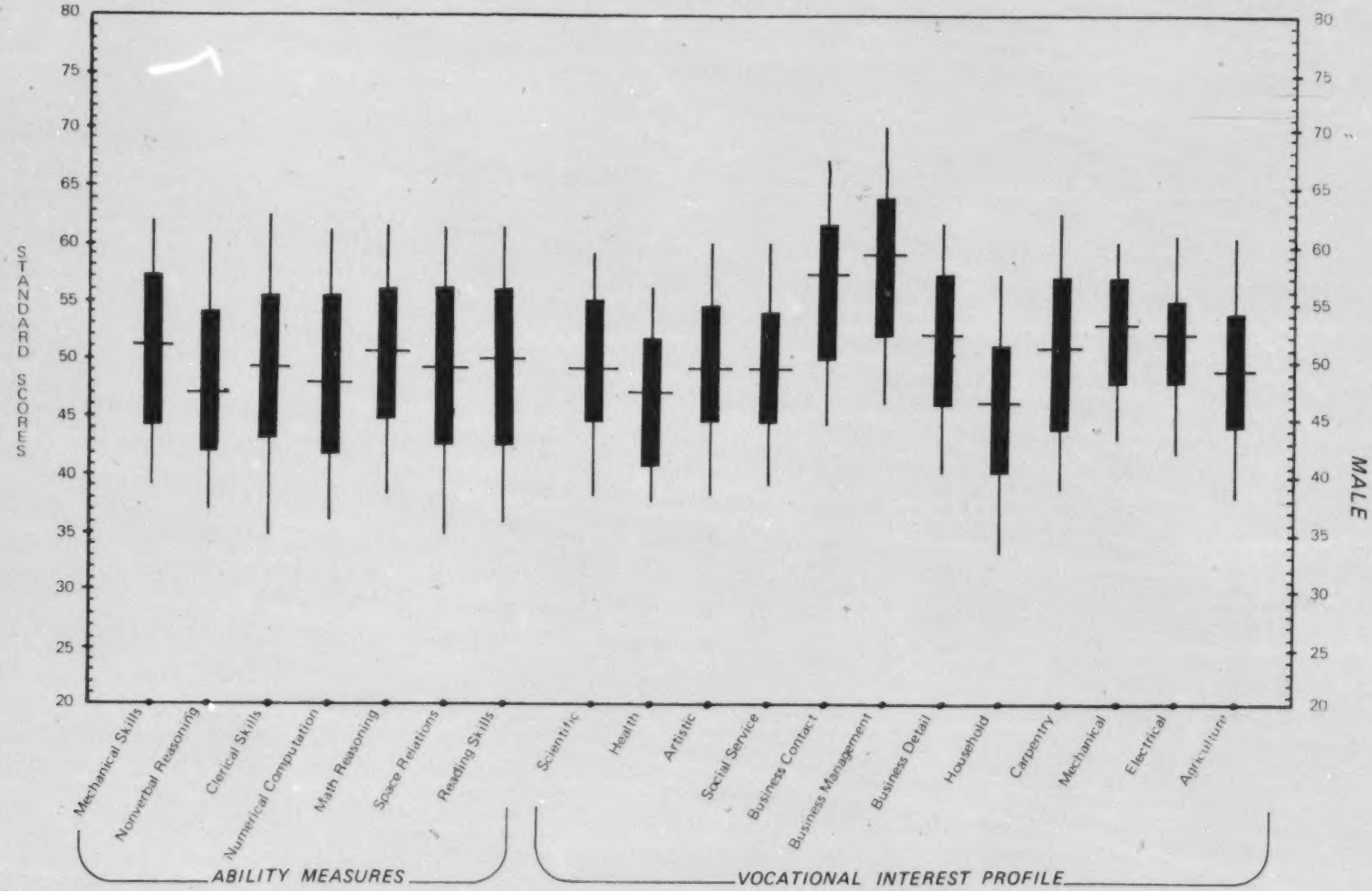



AGRICULTURE, FORESTRY, AND MARITIME CLUSTER
*FEMALE*

Note: Because of small sample sizes these norms should be interpreted with caution.

*FIGURE E.3*

**PROGRAM CLUSTER PROFILES FOR ABILITY MEASURES AND VOCATIONAL INTEREST PROFILE SCALES**

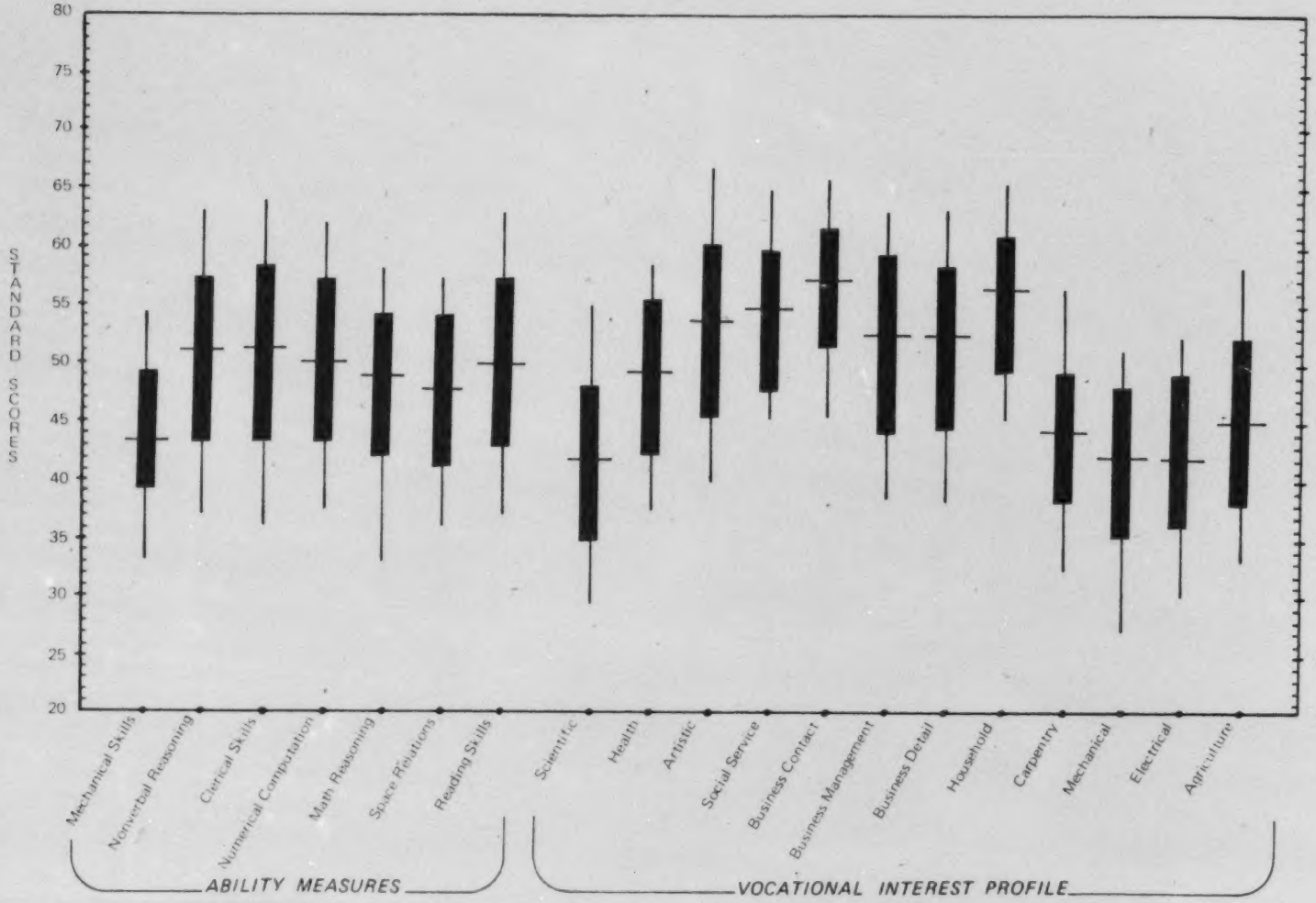



N = 402

N = 404

*FIGURE E.4*

**PROGRAM CLUSTER PROFILES FOR ABILITY MEASURES AND VOCATIONAL INTEREST PROFILE SCALES**




N = 171

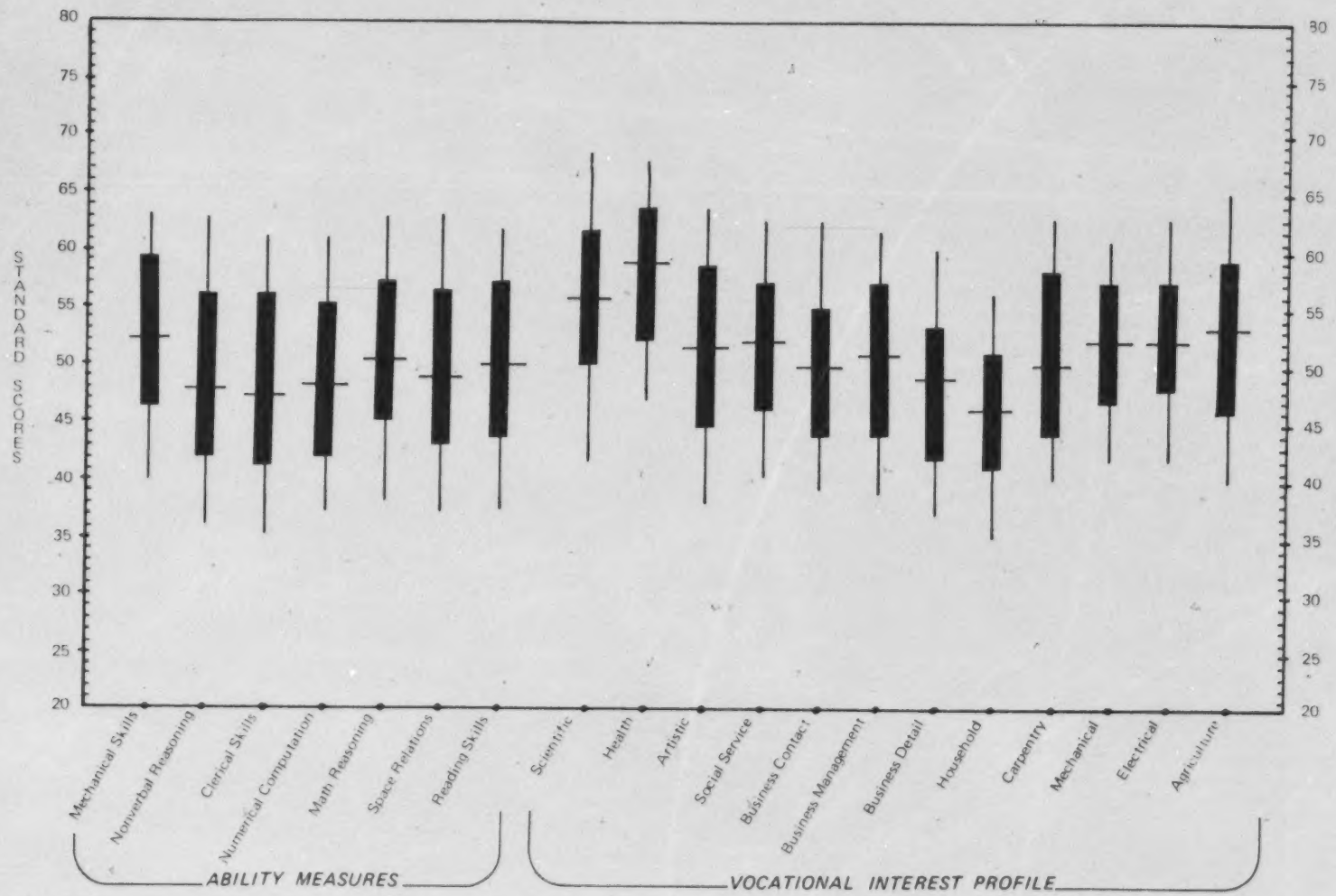




N = 171

*FIGURE E.5*

**PROGRAM CLUSTER PROFILES FOR ABILITY MEASURES AND VOCATIONAL INTEREST PROFILE SCALES**




N = 335

N = 333

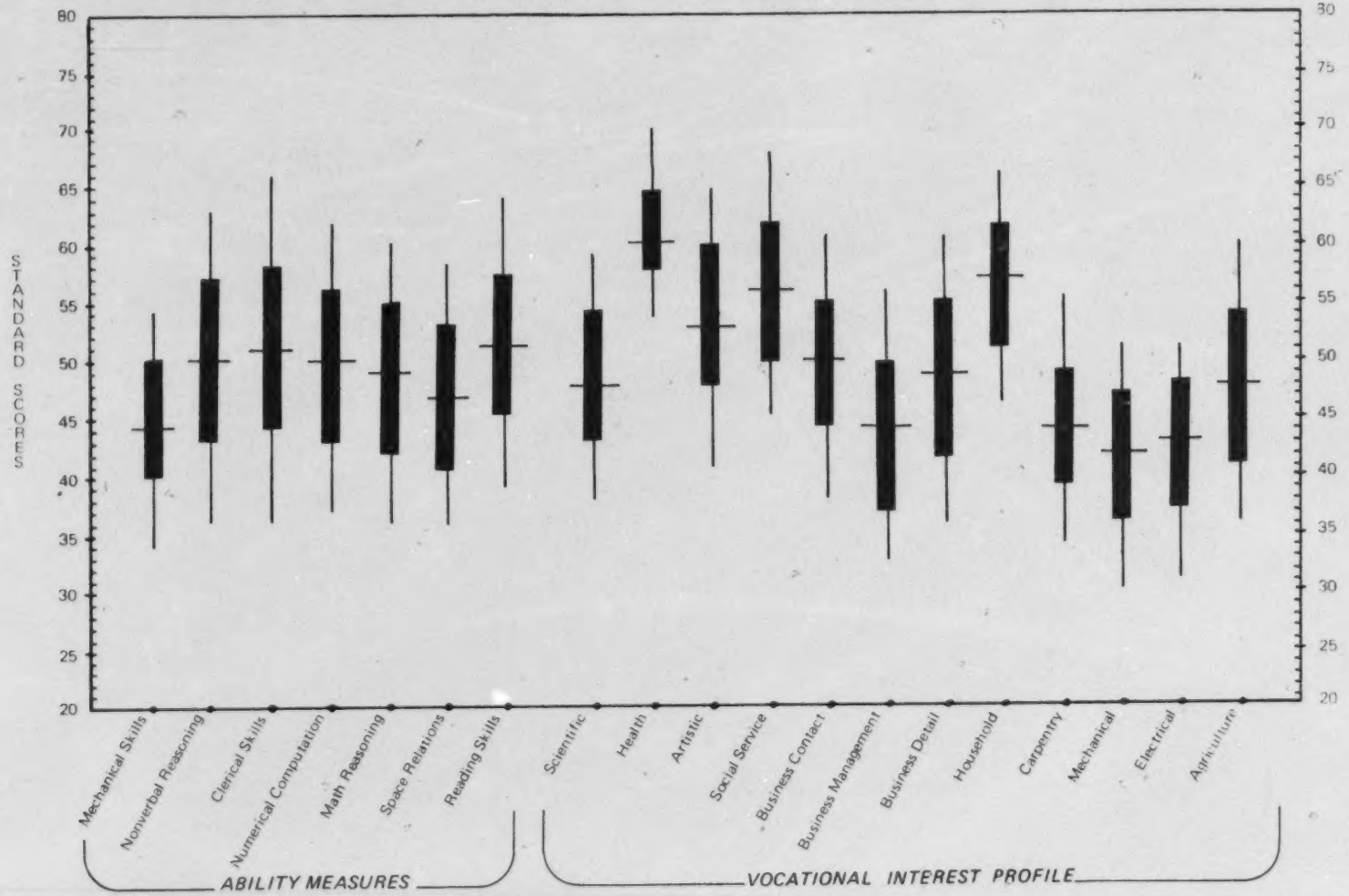
*APPENDIX E*

**HEALTH CLUSTER**

*MALE*

*FIGURE E.6*

**PROGRAM CLUSTER PROFILES FOR ABILITY MEASURES AND VOCATIONAL INTEREST PROFILE SCALES**



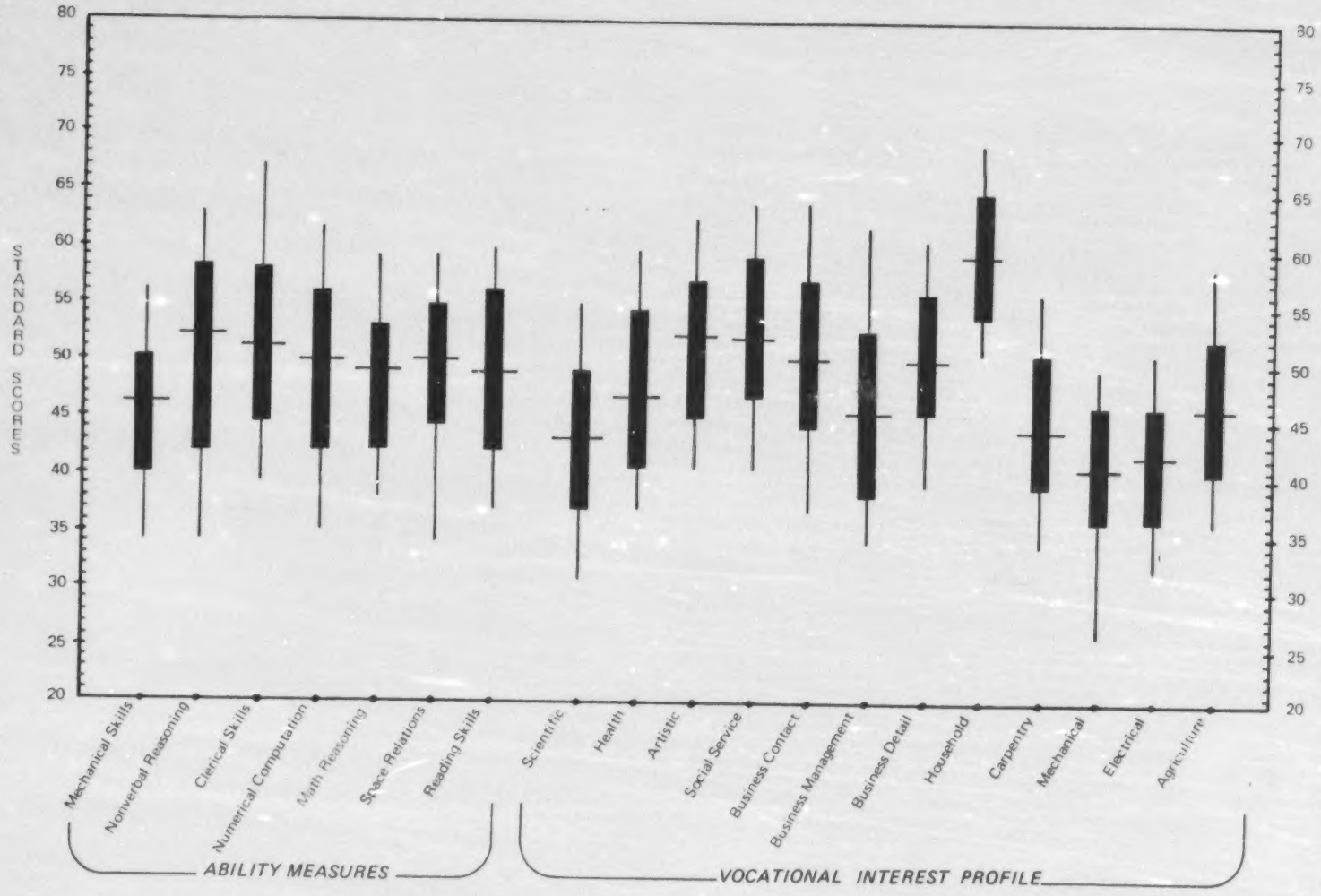

N = 2620

N = 2645

Home Economics cluster profile is not available for males

*FIGURE E.7*

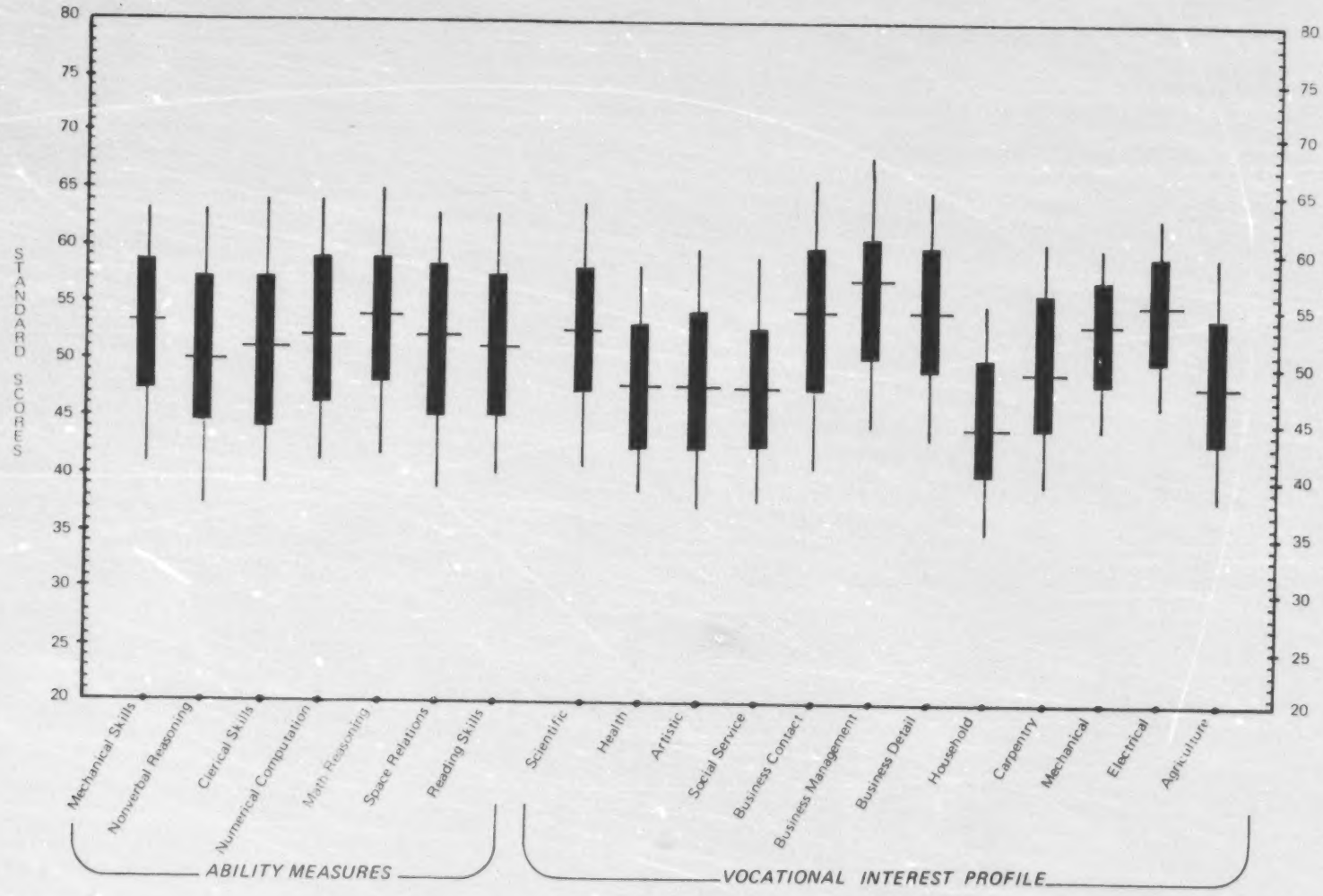
**PROGRAM CLUSTER PROFILES FOR ABILITY MEASURES AND VOCATIONAL INTEREST PROFILE SCALES**




Note: Because of small sample sizes these norms should be interpreted with caution.

*FIGURE E.8*

**PROGRAM CLUSTER PROFILES FOR ABILITY MEASURES AND VOCATIONAL INTEREST PROFILE SCALES**



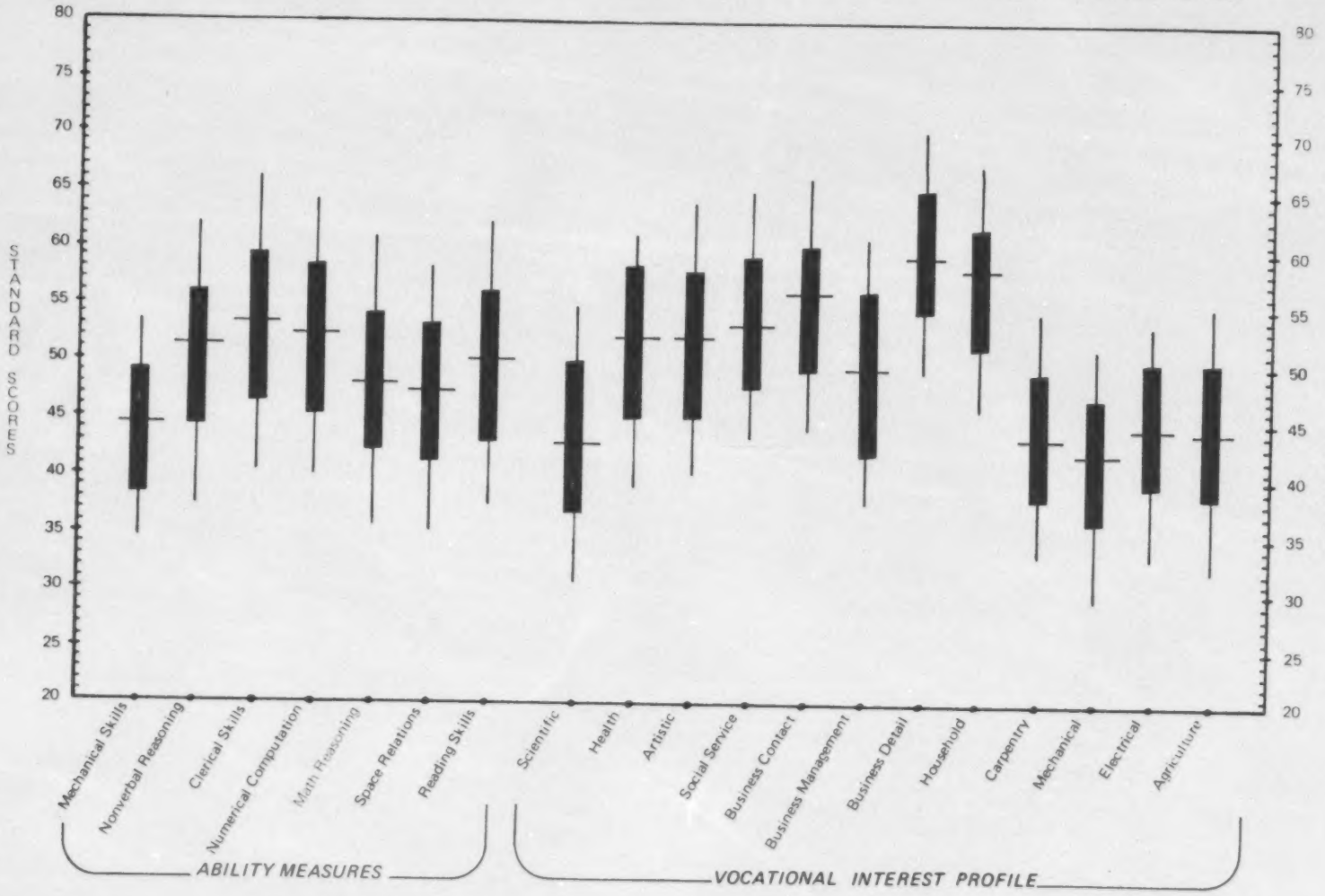

*APPENDIX E*

**BUSINESS AND OFFICE CLUSTER**

*MALE*

*FIGURE E.9*

**PROGRAM CLUSTER PROFILES FOR ABILITY MEASURES AND VOCATIONAL INTEREST PROFILE SCALES**




*APPENDIX E*

**BUSINESS AND OFFICE CLUSTER**

*FEMALE*

DO NOT LITER

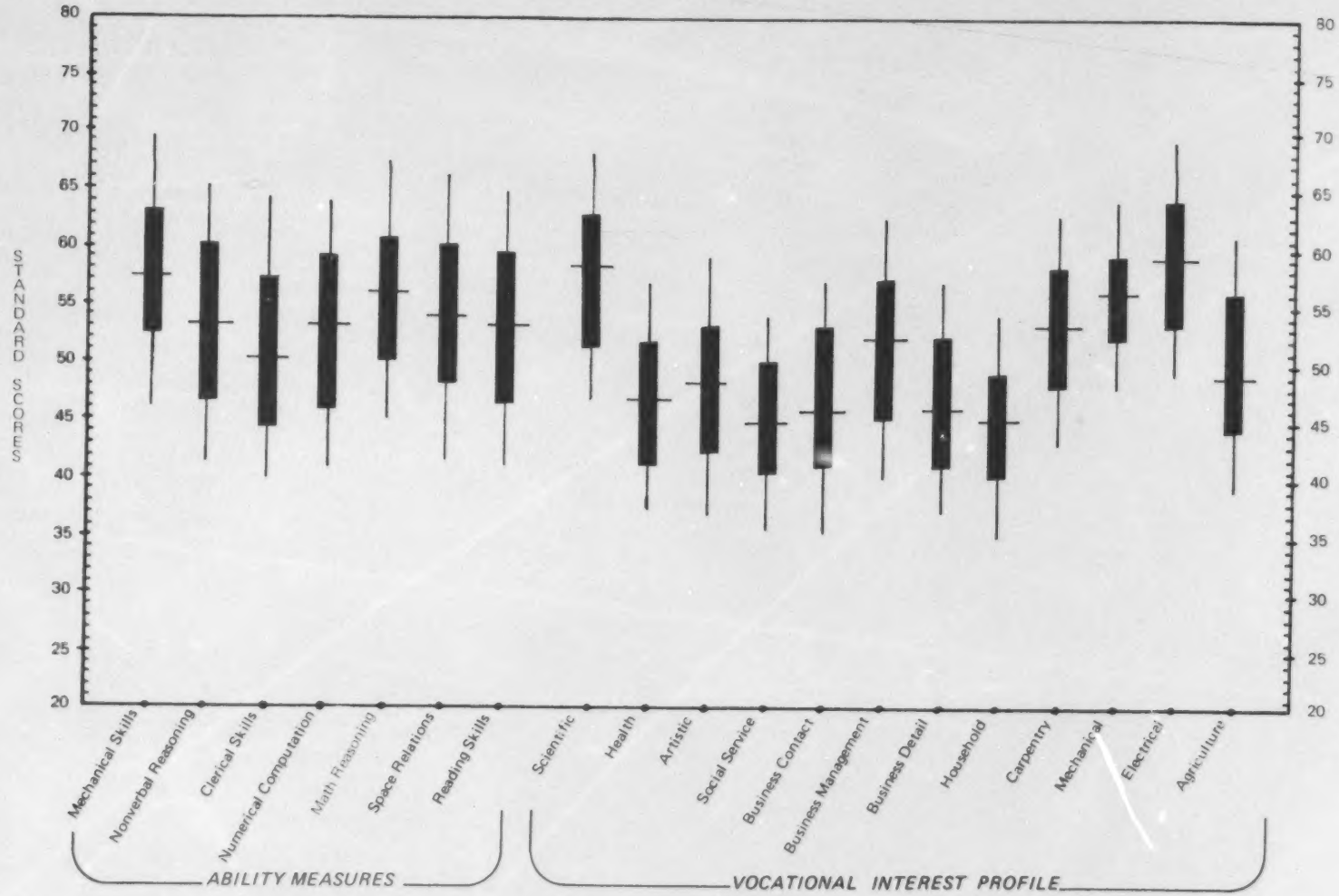


N = 2202

N = 2211

*FIGURE E.10*

**PROGRAM CLUSTER PROFILES FOR ABILITY MEASURES AND VOCATIONAL INTEREST PROFILE SCALES**




N = 1477

N = 1476

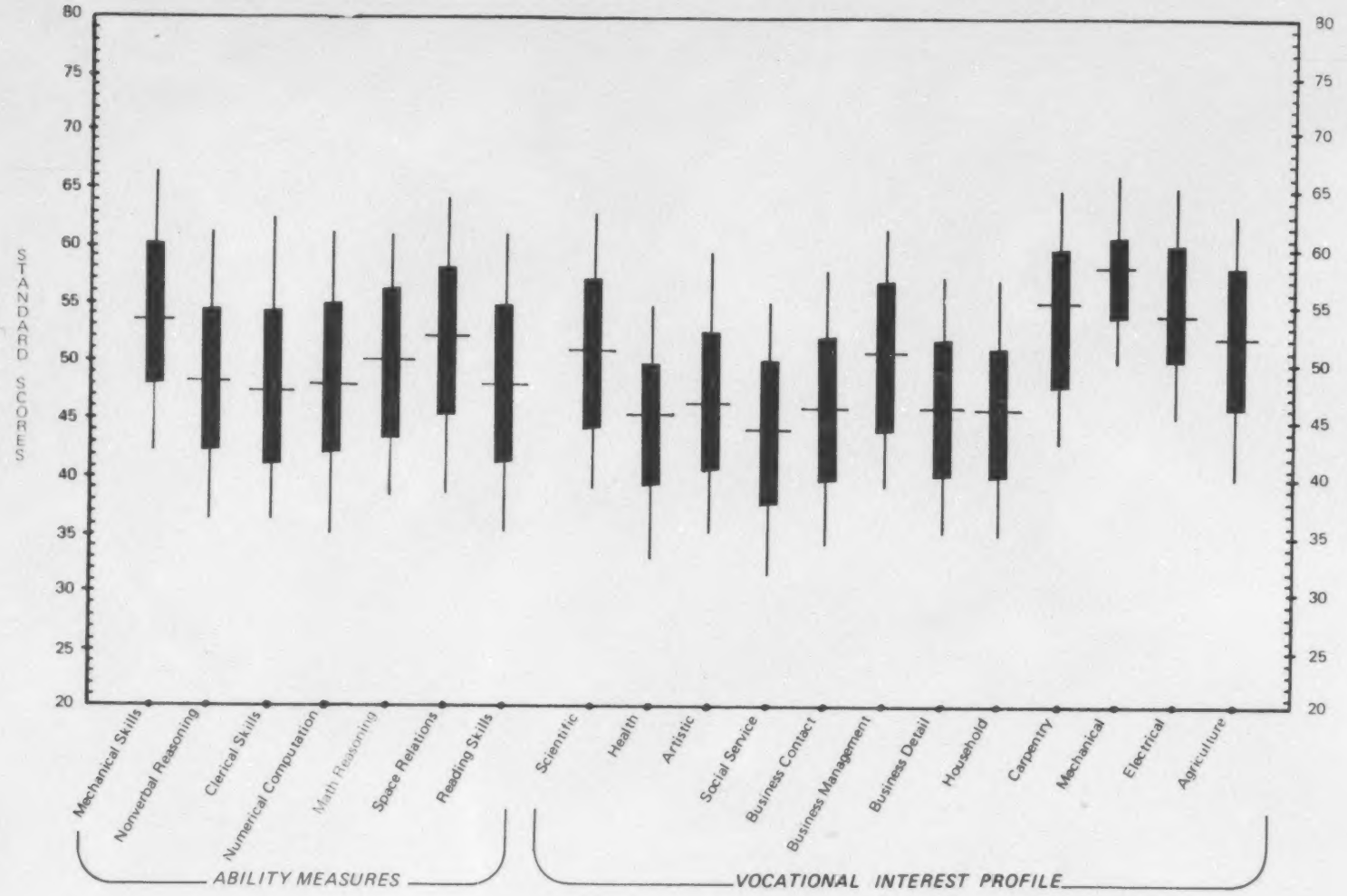
*APPENDIX E*
**SCIENCE, ENGINEERING, AND TECHNOLOGY CLUSTER**
*MALE*

PAGE

Science, Engineering, and Technology cluster profile is not available for females

*FIGURE E.11*

**PROGRAM CLUSTER PROFILES FOR ABILITY MEASURES AND VOCATIONAL INTEREST PROFILE SCALES**

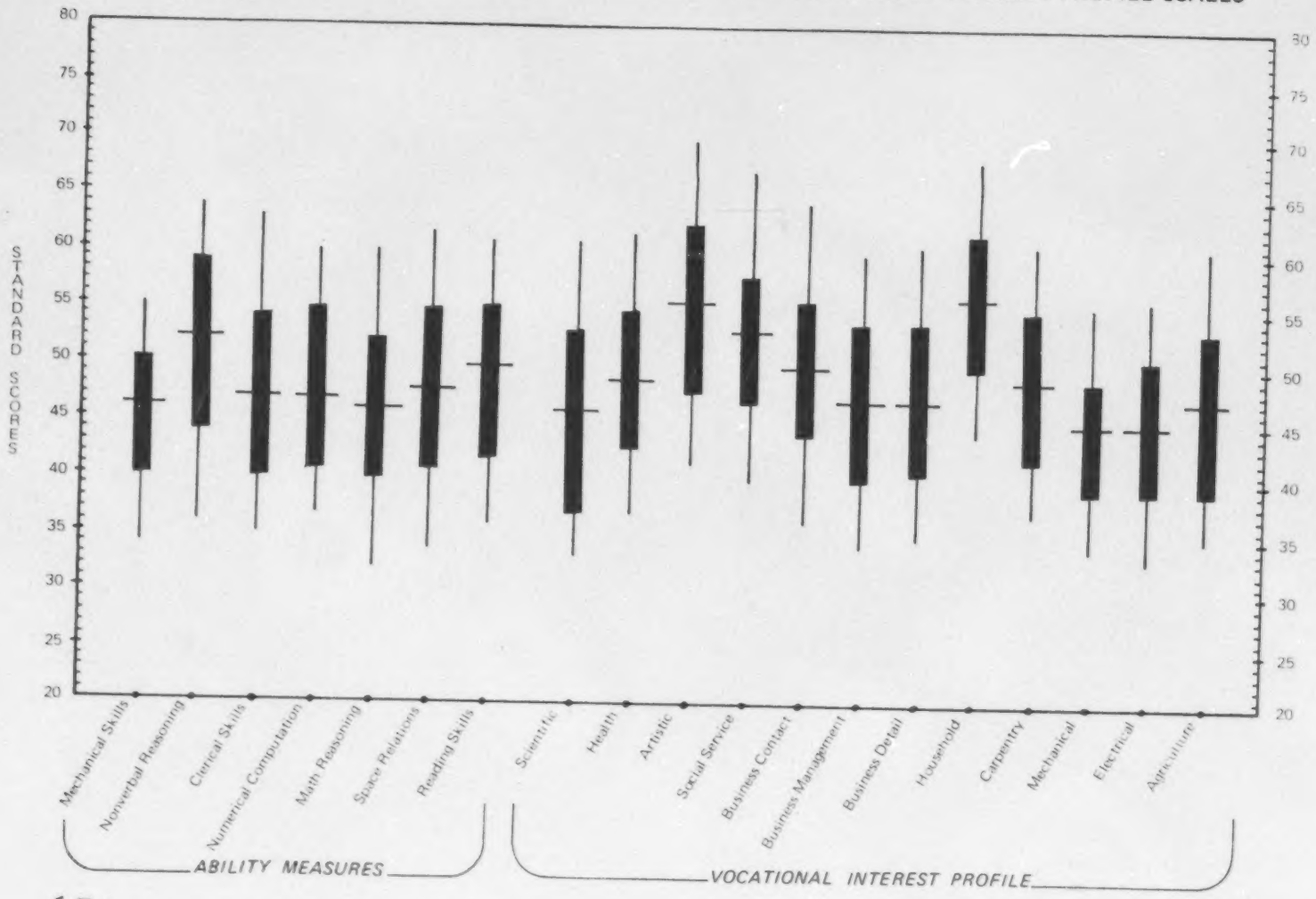



N = 4244

N = 4265

*FIGURE E.12*

**PROGRAM CLUSTER PROFILES FOR ABILITY MEASURES AND VOCATIONAL INTEREST PROFILE SCALES**




N = 128

N = 131

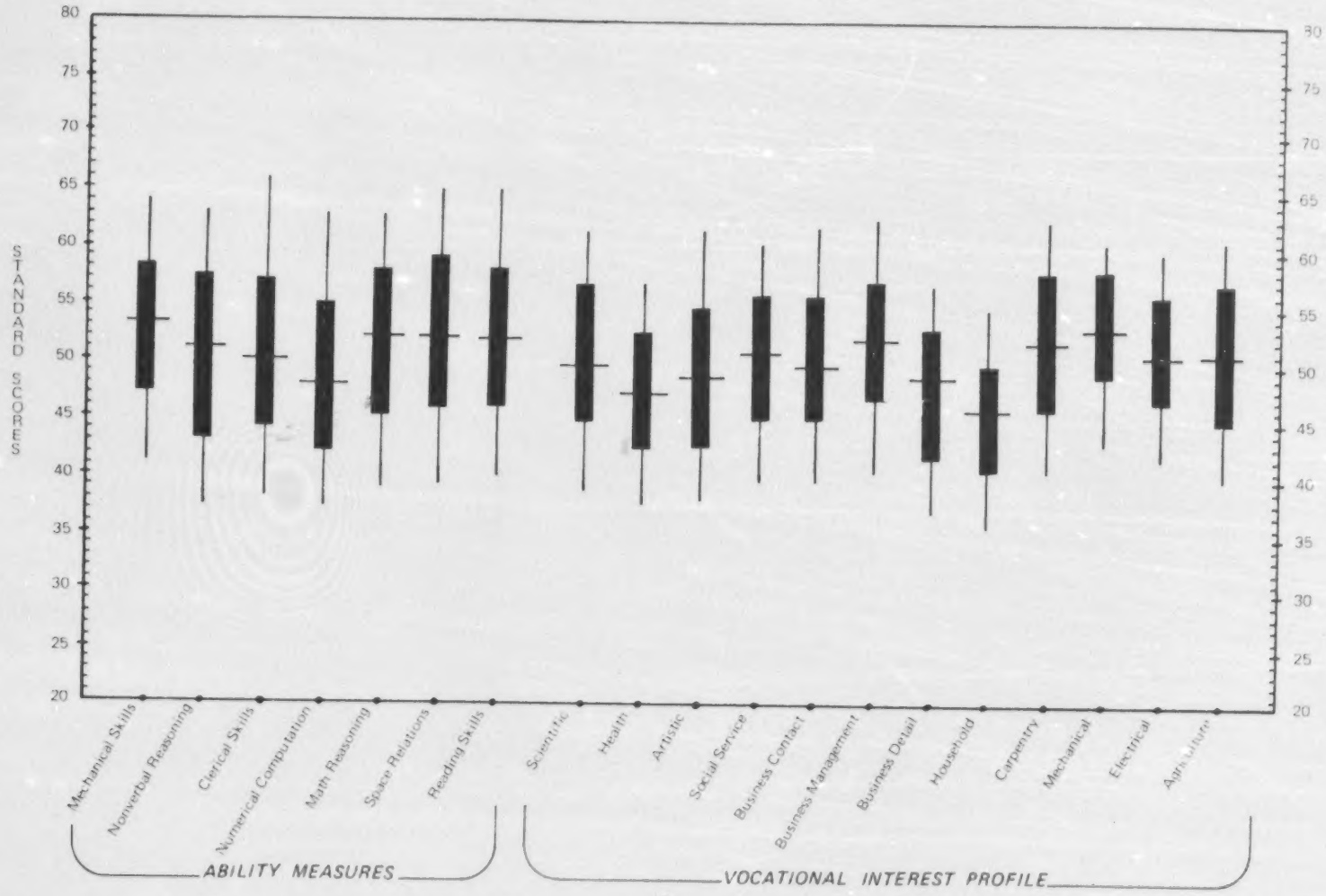
*APPENDIX E*

**TRADE AND INDUSTRIAL CLUSTER**

*FEMALE*

*FIGURE E.13*

**PROGRAM CLUSTER PROFILES FOR ABILITY MEASURES AND VOCATIONAL INTEREST PROFILE SCALES**




N = 586

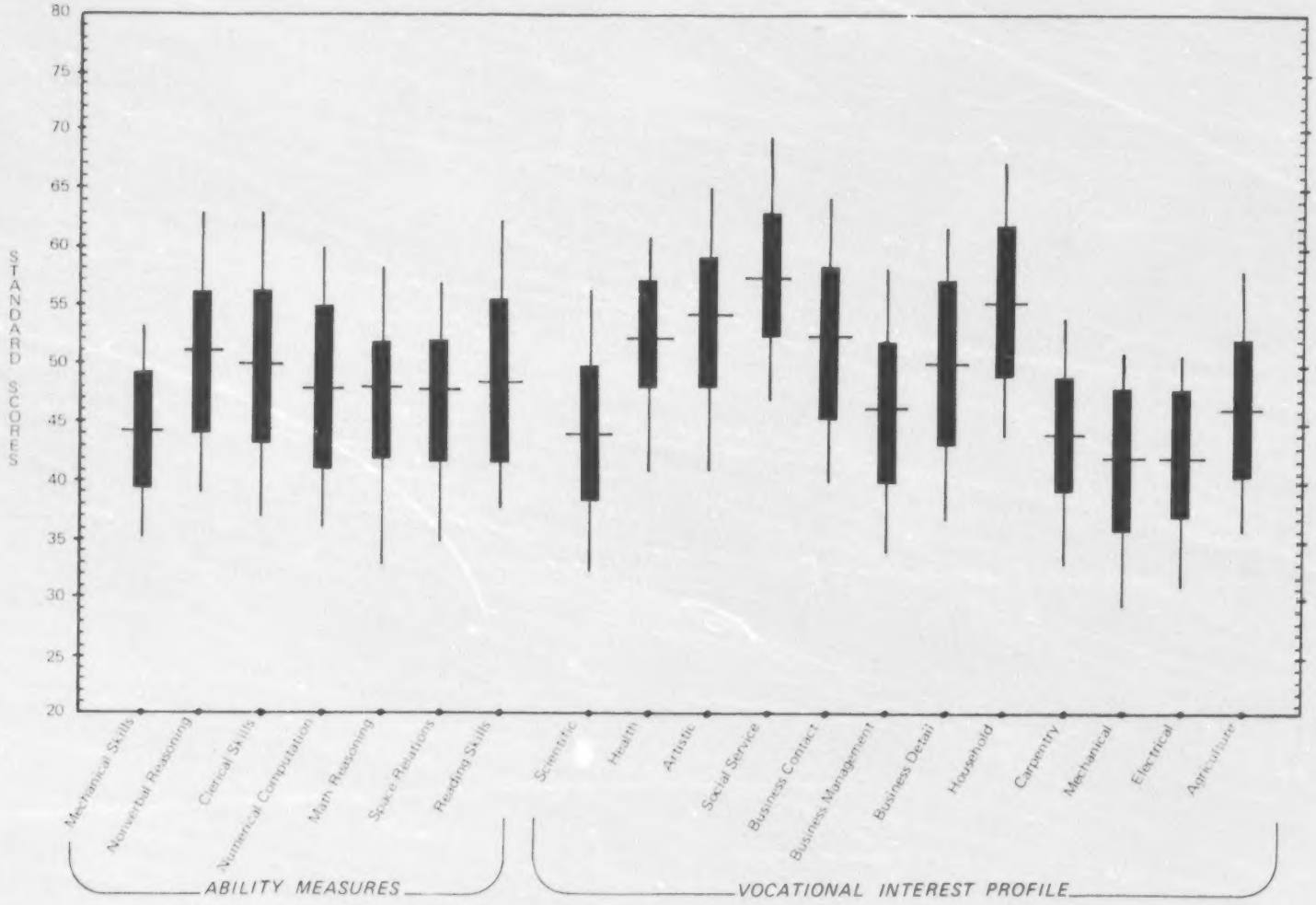
N = 587

*APPENDIX E*
**SOCIAL SCIENCE AND PUBLIC SERVICE CLUSTER**
*MALE*

THIS PAGE

*FIGURE E.14*

**PROGRAM CLUSTER PROFILES FOR ABILITY MEASURES AND VOCATIONAL INTEREST PROFILE SCALES**




*APPENDIX E*
**SOCIAL SCIENCE AND PUBLIC SERVICE CLUSTER**
*FEMALE*

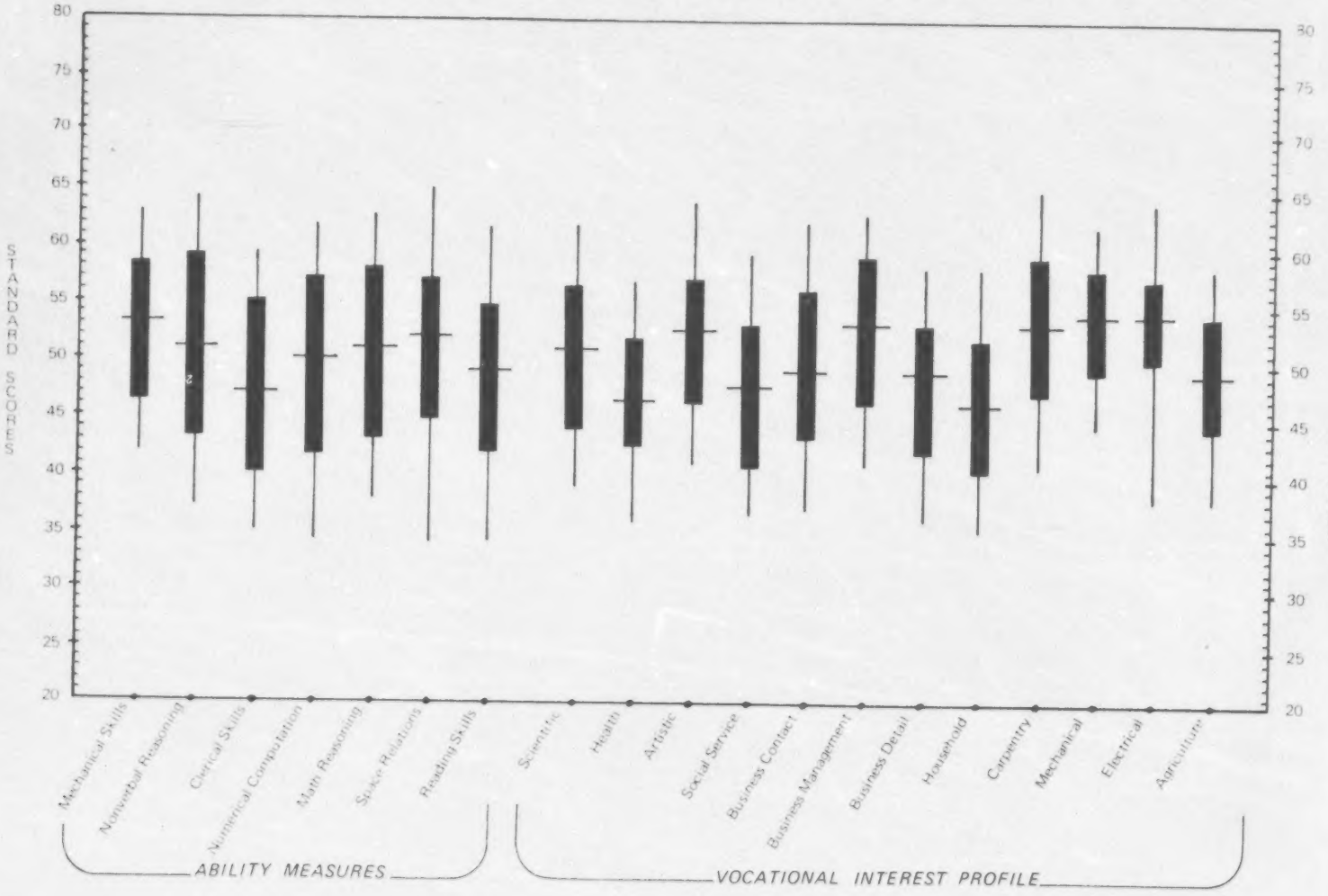


N = 577

N = 581

*FIGURE E.15*

**PROGRAM CLUSTER PROFILES FOR ABILITY MEASURES AND VOCATIONAL INTEREST PROFILE SCALES**




N = 146

N = 148

*APPENDIX E*

**ARTS AND HUMANITIES**

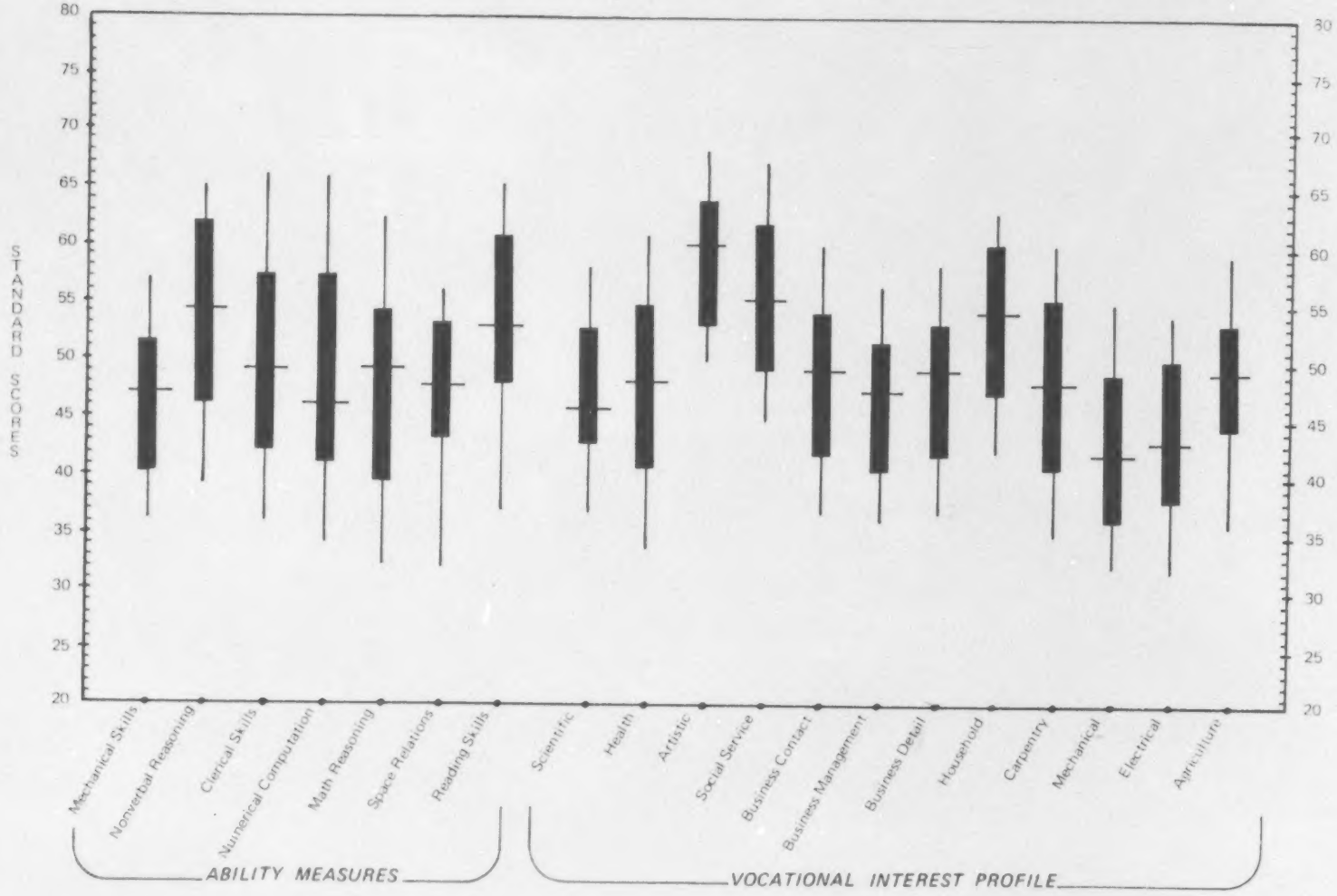
**VOCATIONAL-TECHNICAL COURSES**

**CLUSTER**

*MALE*

*FIGURE E.16*

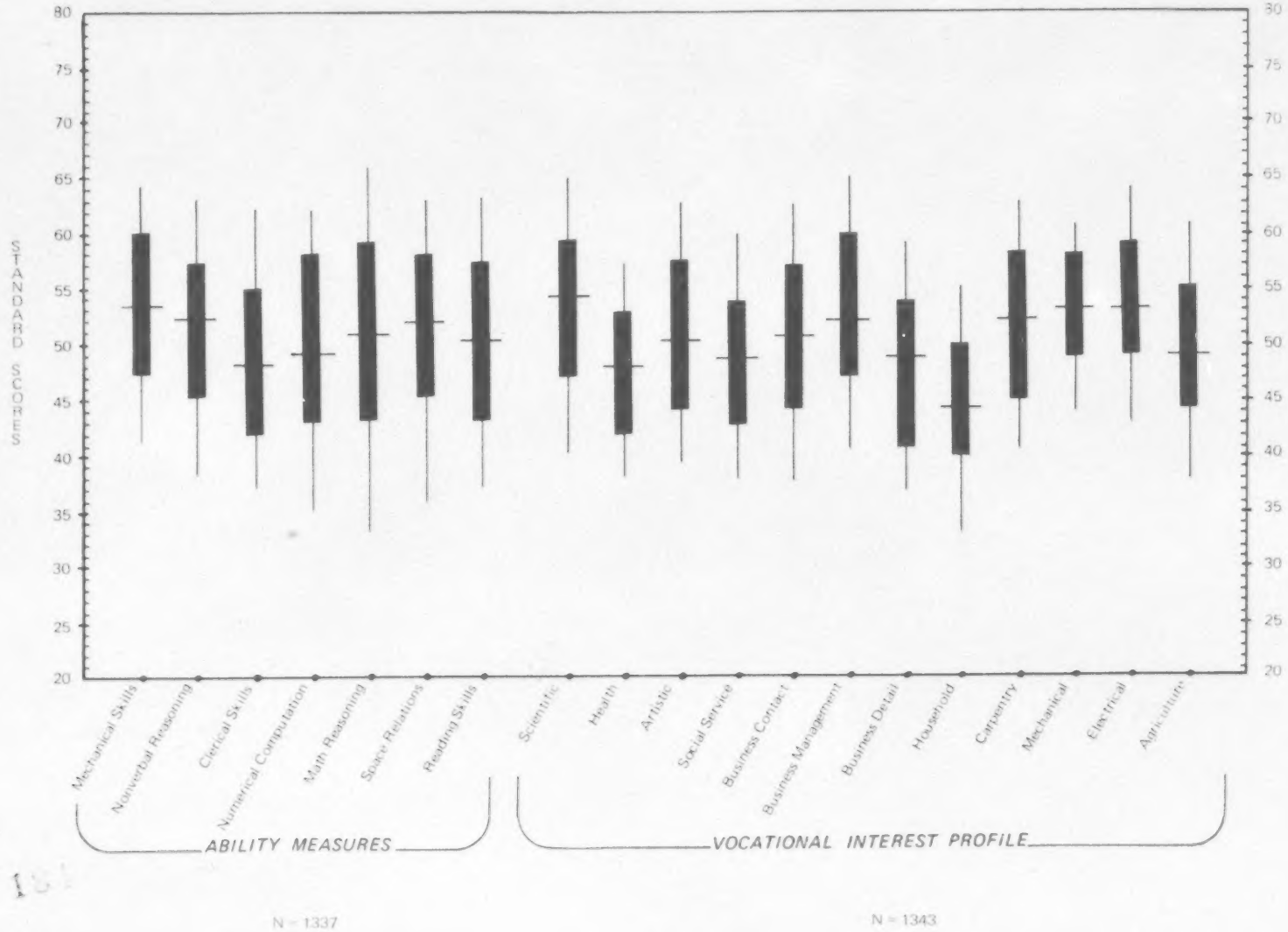
**PROGRAM CLUSTER PROFILES FOR ABILITY MEASURES AND VOCATIONAL INTEREST PROFILE SCALES**




Note: Because of small sample sizes these norms should be interpreted with caution.

*FIGURE E.17*

**PROGRAM CLUSTER PROFILES FOR ABILITY MEASURES AND VOCATIONAL INTEREST PROFILE SCALES**




N = 1337

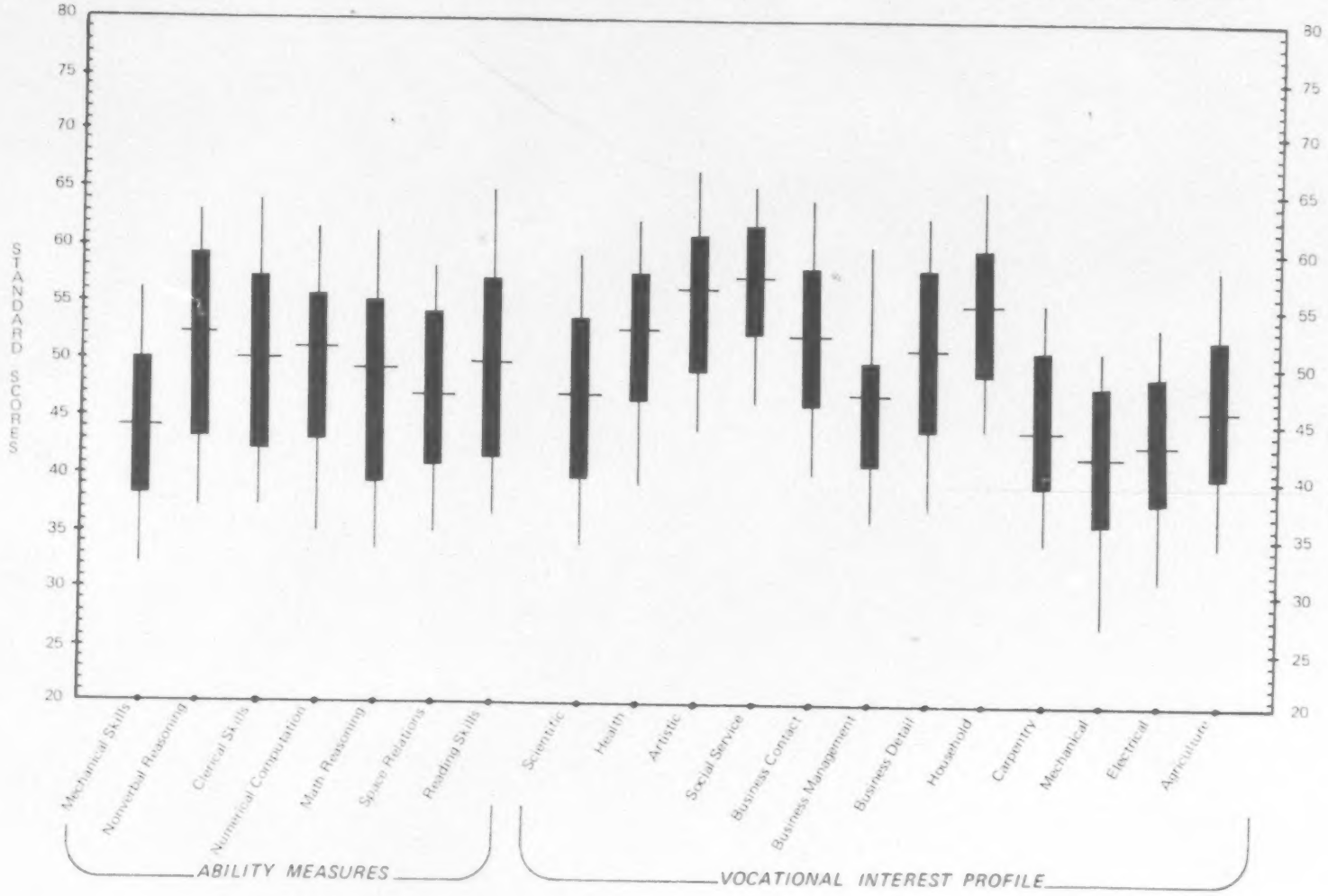
N = 1343

CE 009 279



*FIGURE E.18*

**PROGRAM CLUSTER PROFILES FOR ABILITY MEASURES AND VOCATIONAL INTEREST PROFILE SCALES**




N = 607

N = 610

Corporate Headquarters